MEDICARE HOSPITAL MORTALITY INFORMATION

1987 • 1988 • 1989

Volume 11

Indiana
Michigan

Region V

PUBS
RA
981
A2
M43
1987-1989, v.
11

U.S. Department of Health and Human Services
Health Care Financing Administration

RA 981
.A2
M43
1987-1989
v.11

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* * *

Volume 11

INDIANA
MICHIGAN

Region V

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For sale by the Superintendent of Documents, U.S. Government Printing Office
Washington, D.C. 20402

The Health Care Financing Administration (HCFA) was established in March 1977 to combine health financing and quality assurance programs into a single agency. HCFA is responsible for the Medicare program, Federal participation in the Medicaid program, the Peer Review Organization program, and a variety of other health care quality assurance programs.

The mission of the Health Care Financing Administration is to ensure the effective administration of our programs in order to promote the timely delivery of appropriate, quality health care to over 59 million of the nation's aged, disabled and poor. The agency must also ensure that beneficiaries are aware of the services for which they are eligible, that those services are accessible and of high quality, and that agency policies and actions promote efficiency and quality within the total health care delivery system.

FOREWORD

The nation's Medicare program, which is administered through the Health Care Financing Administration (HCFA) in the Department of Health and Human Services, has more than 33 million beneficiaries. One of HCFA's primary responsibilities is to ensure that Medicare beneficiaries receive quality health care. This fourth annual release of Medicare hospital mortality information is a key element in our efforts to improve the effectiveness of medical practice and the quality of care provided to Medicare beneficiaries.

This publication presents information to answer the question "What is the actual mortality rate within a certain period of time for each hospital compared to what rate would have been predicted, given what we know about the characteristics of the patients admitted?" We expect this information to be used by hospital administrators, physicians, peer review organizations, Medicare beneficiaries, State survey and certification agencies and researchers. The information in this release is not intended as a direct measure of quality of care. It is best used as a "screening tool"--that is, to identify potential problems for further review and, in consultation with medical staff, to evaluate a hospital's strengths and weaknesses. Thus, we believe that consumers can use this information to ask questions of their physicians, rather than reach judgments about the quality of care in a particular hospital.

The basic approach to analyzing hospital mortality information has remained unchanged for the past four years; however, since the last publication of mortality information in December 1989, we have made some significant changes both in our methodology and in the way we display the results of our analysis. This publication presents information for 30, 90, and 180 days post admission, as opposed to the single point of 30 days post admission used in all the previous publications. Also, we present values for an observed mortality rate, a predicted mortality rate and a standard deviation.

These refinements should make this information an even more valuable educational tool to help improve the quality of care in hospitals. The changes were reviewed and approved by a panel of outside experts. The methodology used in arriving at the observed mortality rate, the predicted mortality rate and the standard deviation are briefly described in the Technical Appendix at the end of this volume and in more detail in a Technical Information Supplement .

We acknowledge the assistance we have received from the American Hospital Association--not only for providing the information detailing selected hospital characteristics but also for alerting its members to the importance of this information. We are also grateful to the personnel in each hospital who took the time to thoroughly review the data and to provide us with comments and suggestions. As before, we have published the comments we received from individual hospitals, associating them with the summary data for the appropriate institution. Over the years, these communications have proved very helpful in improving and refining the information included in this publication.

Gail R. Wilensky

Gail R. Wilensky, Ph.D.
Administrator

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TECHNICAL APPENDIX A-1

INTRODUCTION

The mortality rates at a given hospital may reflect, among other factors, the age, sex, diagnoses, and severity of illness of patients admitted to that hospital, as well as the quality of care they received. Factors affecting health and the probability of death vary among the patient populations served by individual hospitals. Consequently, the mortality rates in different patient populations vary considerably.

Before reading the tables containing the hospital-specific information and the comments provided by individual hospitals, the reader will find it useful to understand the format and presentation of the information. This year's publication presents information for Federal fiscal years (FYs) 1987, 1988 and 1989. (A Federal fiscal year is October 1 through September 30; e.g., FY 1989 covers the period October 1, 1988 through September 30, 1989.) The information for 1987 and 1988 will be different from that published previously both because it is based on a fiscal, not calendar, year, and because the methodology for this year's analysis uses a random hospital stay rather than the last stay in the year as did previous analyses.

Description of Mortality Information

These latest analyses of the mortality rates associated with Medicare hospitalizations are similar to those carried out in the three prior years. Only one hospitalization for every patient was used. However, in this year's analysis, when a patient had multiple hospitalizations during the fiscal year, one stay to be analyzed was selected at random. We believe that the use of the randomly selected admission provides a better representation of a typical hospital admission and permits us to calculate mortality rates more nearly like those the hospital itself would calculate for its patients. The event evaluated was death at any time within 180 days of admission to the hospital. With this approach, information about the early and later results of the hospitalization are provided. This is important because diseases evolve with different time courses, and treatments may have different short- and long-term impacts. The choice of 180 days allows substantial followup consistent with timely reporting of HCFA data. Additionally, the decision to report the longer followup data necessitated the change from calendar to fiscal year analysis, since it provides at least 182 days followup while allowing us to report on quite recent hospitalizations. Another benefit of using a fiscal rather than a calendar year for analysis is that our files are maintained on a fiscal year basis and new Medicare rules are often instituted on a fiscal year basis.

For each hospital, information is presented for overall Medicare patient mortality and for each of 17 specific diagnostic or medical procedure categories. The information consists of the number of Medicare patients; the observed or actual mortality rate (OBS); the predicted mortality rate (PRED), given the mix of patients; and a standard deviation (SD), a measure of the uncertainty of the predicted rate. A rule of thumb for using the SD to assess a hospital's performance appears later in this Introduction, and a more precise formula for the use of the SD is included in the Technical Appendix.

As we did in previous years' publications, we are including selected information about each hospital, such as the number of beds and other characteristics, which we obtained from data contained in the American Hospital Association's (AHA) 1989 Annual Survey of Hospitals files or, when such information was not available from the AHA file, the Health Care Financing Administration's (HCFA) Online Survey Certification and Reporting System (OSCAR) file. These hospital characteristics are found at the bottom of each hospital's first summary data page. A more detailed description of the hospital characteristics appears later in this Introduction. It is important to note that these characteristics are provided for information only. They were not part of the analyses, and any errors or discrepancies in them do not affect the predicted mortality rates. In the publication, we have arranged the States by HCFA regions. A hospital's summary data pages and any comments received are arranged alphabetically by hospital name in each State section. A complete listing of States by region and volume can be found in Table 1.

Before reviewing a hospital summary table, it would be helpful to describe how the numbers were derived and what they mean.

> **Number of Cases.** This figure is the number of individual Medicare beneficiaries whose discharge in a fiscal year from the short-term, acute care hospital listed was selected for analysis. The total number of cases selected for each hospital is presented under the category "All Causes." The eight condition and nine procedure categories are subgroupings drawn from the "All Causes" selection. Although a particular patient may appear in only one of the eight condition categories, that same patient may also appear in one or more of the nine categories defined by a surgical procedure. Similarly, a patient may appear in one or more of the nine surgical procedure categories, even though he or she was not included in any of the eight condition categories. The categories chosen for display represent HCFA's interpretation of the categories judged to be important by various outside advisors including the Institute of Medicine. The listed condition and procedure categories cover less than half of all the hospitalized patients. (ICD-9-CM codes included in each condition and procedure category appear in Table 2.). These conditions and procedures represent the causes for the hospital admission and/or surgical episodes during that stay; **they do not necessarily represent the cause of death.** HCFA does not have access to cause of death information.
>
> **Observed Mortality Rate (OBS).** This number is the percentage of each acute care hospital's selected Medicare patients who died within 30, 90 or 180 days of the selected admission to the hospital. The percentage is rounded to the nearest one-tenth of a percent. Both in-hospital deaths and deaths occurring after discharge but within 30, 90 or 180 days of admission are included. For example, if a hospital had 1,000 patients included in the "All Causes" category and 124 of these patients died within 30 days of the selected admission, the 30-day observed mortality rate would be 12.4 percent; if an additional 17 patients died more than 30 but less than 91 days after admission, the 90-day observed mortality rate would be 14.1 percent; and if an additional 13 patients died more than 90 but less than 181 days after admission, the 180-day observed mortality rate would be 15.4 percent. It is important to note than the observed mortality rate is cumulative; e.g., the 90-day observed mortality rate includes all deaths which occur within 30 days of admission, as well as those occurring more than 30 and less than 91 days after admission. The observed mortality rate represents the percentage of beneficiaries in

a particular category who died during the selected time interval. As noted above, it does **not** represent the percentage whose death was caused by the particular condition or procedure.

Predicted Mortality Rate (PRED). This column gives a predicted mortality rate for patients included in the analysis for each hospital. The rate is derived in part by determining, based on national experience, the contribution to the probability of dying associated with various patient characteristics: principal diagnosis (grouped into 17 analytical risk categories), age, sex, previous hospital admissions within the prior six months, admission source (e.g., physician reference, skilled nursing facility reference), admission type (e.g., elective or emergency), and the presence of up to four comorbid conditions--cancer, chronic cardiovascular disease, chronic renal disease, and chronic liver disease. For additional details on the development of the rates, see the Technical Appendix at the end of this volume. For a list of the ICD-9-CM codes defining the comorbid conditions see Table 3. Two additional adjustments for patient risks were carried out. First, account was taken of the effect of the specific reason for admission--the principal diagnosis within each analytic category--on the probability of patient death. Second, the additional information carried by the grouping of patients into clinically informative categories was also used. This last adjustment proved particularly important in the case of the surgical categories, because the performance of a surgical procedure has substantial implications about the severity of illness.

Standard Deviation (SD). The standard deviation is a guide to how meaningful the difference between the observed and predicted mortality rate is. In general, the greater the difference between the two rates, the greater the probability that the difference represents an actual variation from what would be expected in view of the national experience.

As a rule of thumb, if the difference is 1.2 times the SD, chances are 3 out of 4 that the difference is due to statistical variability observed nationally. If the difference is greater than 1.6 times the SD, there is only 1 chance in 10 that the difference is due to statistical variability; if the difference is more than 2.0 times the SD, there is only 1 chance in 20 that the difference is due to statistical variablity; and if the difference is more than 2.6 times the SD, there is only 1 chance in 100 that the difference can be attributed to statistical variablity rather than actual variation from what would be expected. The less chance that the difference between the PRED and the OBS can be attributed to statistical variability, the more grounds for concern may exist about the institution's performance. Further information on how to use the SD to construct prediction intervals for use in assessing the real difference between the OBS and the PRED are included in the Technical Appendix at the end of this volume. The precision and interpretability of the estimates are weaker when there are no deaths or 50 or fewer cases in a particular category being analyzed. Thus, for these instances, an asterisk (*) is placed in the SD column.

Information Sources and Notes

This publication is based primarily on Medicare hospital billing information for fiscal years 1987, 1988 and 1989. While the principal source of the data for the analysis was the HCFA-maintained Medicare Provider Analysis and Review (MEDPAR) file which contains information about each Medicare hospitalization, some of the information about beneficiaries, such as date of death, was obtained from the Social Security Administration. Hospitals submit bills to HCFA's fiscal intermediaries (which handle claims for the care provided to Medicare beneficiaries) which, in turn, submit this information to HCFA. The file is updated on a quarterly basis. Our analysis was based on information available following the June 1990 update of the MEDPAR file. It is estimated that by that time (nine months after the close of the fiscal year) 98 percent of all Medicare discharges in FY 1989 are included in the file.

In any large-scale data base, such as the one dealing with Medicare hospitalizations, there will be gaps or inaccuracies. The fact that the files contain information on about 10 million hospital admissions to nearly 6,000 hospitals for each year provides some assurance that, for purposes of the statistical analysis conducted here, the information which might be missing or inaccurate is such a small portion of the total that it would have almost no impact on the results for national estimates. It may, however, substantially affect an individual hospital if it was the source of the suspect information.

Nevertheless, while we feel that the information used in this analysis is quite thorough and complete, there are a few points which should be kept in mind as the hospital-specific information is reviewed.

> The information used is billing data and is only as good as the information submitted by hospitals as part of the payment process. Although there is always a possibility that coding errors are included, we assume that, given the link to payment, hospitals have an incentive to submit bills accurately and promptly. We do know, however, that some hospitals submitted incomplete or erroneous data.
>
> The hospitals included in this analysis are participating in Medicare as short-term, acute care facilities; all have a zero in the third position of their Medicare provider number. All other hospitals--those with something other than a zero in the third position of their provider number, such as rehabilitation facilities or psychiatric institutions--were automatically excluded from the analysis. This year, as last, we also excluded hospices from the publication.
>
> In some cases, we have included data for hospitals which closed, changed ownership, or changed management either during or subsequent to FY 1989. Nevertheless, data which are included for those institutions reflect the situation as it existed at the time the hospitalizations analyzed occurred.
>
> There is some information in the MEDPAR file which does not reflect immediately the results of review by the Peer Review Organizations (PROs). For example, one of the functions a PRO performs is to ensure that the diagnosis assigned to a particular case is accurate. The nature of the review and payment system is such that, in some instances, PRO changes in diagnosis assignment may not be

submitted and associated in the MEDPAR file on as timely a basis as other billing information. Obviously, this type of change could have an effect on the calculation of mortality rates in individual categories and may also have a bearing on comorbidities.

The usefulness of this information depends upon the accuracy with which mortality rates can be predicted. It is important to understand that the difference between the hospitals' mortality rates and the predicted rates in the tables in this publication may not be a direct measure of the quality of care rendered in the hospitals. One reason for this is that we do not now have any direct measurement tool with which we can adjust fully for differences among hospitals in how severely ill their patients are. For instance, two hospitals may have very different death rates for patients admitted for stroke, even after we have adjusted for age, sex and several other factors. This might happen because one hospital's stroke patients consist of a significant number who are admitted in a coma (and are thus more likely to die), whereas another hospital's patient population represents a broader spectrum of patients with cerebrovascular problems, or because these hospitals in fact do provide different levels of quality of care. In addition, other factors affecting the probability of death in a particular case (e.g., family status/support, overall health status of the patient, etc.) are not included in the predictive model because information on them is not readily available.

Nevertheless, we believe that this information is an important contribution to the health care community and should be helpful to a wide range of individuals and organizations including hospital administrators, physicians, and researchers. Among these audiences, we expect that the hospital administrator (in consultation with medical staff) will find the information most useful as a screening tool to evaluate a hospital's strengths and weaknesses. For example, we know that some hospitals and their medical staffs, using established and newly emerging quality assessment techniques, are trying to determine what useful information can be derived about their hospitals and how they function. In this way, the information should lead to analysis and subsequent actions which will capitalize on areas of strong performance and strengthen areas where improvement is needed.

We believe that when this information is properly understood and applied, it can be very useful; it can also be misleading if it is interpreted incorrectly. The information simply describes one of several possible outcomes at a hospital--post-admission mortality for Medicare beneficiaries. The information is not necessarily representative of a hospital's total performance in all aspects of patient care and is best used to view experience in individual hospitals rather than for making comparisons among hospitals. Individual hospitals may have very good reasons for their rates being higher than the rates predicted by the HCFA model. For example, one hospital might have different death rates than another because of its patient mix. Accordingly, it was important for hospitals to have an opportunity to review their specific information and to provide comments to HCFA and the public. We offered each hospital the opportunity to comment on the information contained in this volume, and we included in this publication those comments which were received by January 15, 1991. Consumers should read the explanations of the uses and limitations of the information, as well as any comments a hospital may have provided.

The development and presentation of this information continues to be an important part of HCFA's responsibilities in the health care community. Consequently, in making the information as accurate and useful as possible, over the past several years we have discussed the theoretical framework and statistical approach with a number of nationally recognized technical experts in appropriate fields. More specifically, in June 1990 we presented the major changes--use of fiscal year data, use of random rather than last admission for analysis, use of the standard deviation rather than ranges, presentation of mortality rates at three time intervals--to these experts. Based on their recommendations, we believe that the models used in these analyses continue to be reasonable and appropriate.

In the past, we have conducted validation studies of our methodology. In general, these studies have found correlation between poor quality care and hospitals whose observed mortality rate significantly exceeds the rate that would have been predicted. However, we have also found that detailed clinical data which more thoroughly characterize the severity of patient's illness, while they do not materially affect results describing the general pattern of mortality, do, in specific instances, alter our assessment of the comparison of the observed to the predicted mortality rates.

The format for presentation, the process for sharing the information with individual hospitals, and the statistical methodology have been discussed at various meetings with leaders of organizations representing Medicare beneficiaries, physicians and hospitals. Also, we have spent many months reviewing the comments received from the hospitals regarding their patient-specific data for earlier years and our previous mortality information publications. Many suggestions from these sources have been incorporated into this publication.

We have carefully investigated comments from individual hospitals on apparent discrepancies or errors generated in previous years. These discrepancies very rarely impacted on a hospital's overall mortality rate. Most of these instances fell into the following three broad categories.

Inaccurate Date of Death. We found that inpatient billing coding errors (e.g., a hospital bill indicating that the patient's status at time of discharge was "expired" when the patient had, in fact, left the hospital alive) created many of these errors. We have mechanisms in place that allow a continuous update of HCFA's master file, thereby enabling us to make corrections.

Data Posting Delays. In some instances, delays in posting data to the MEDPAR file created difficulties in prior years' analyses. However, because of the use of a fiscal, rather than calendar, year and of a random, rather than last, admission for analysis, this problem has largely been eliminated.

Discrepant Case Counts. Our analysis counts only one acute care discharge in a fiscal year; normally, hospitals count each discharge. Thus, a patient admitted three times in a year would count three times for the hospital, but only once for the purpose of analyzing Medicare hospital mortality data presented in this publication.

On December 6, 1990, we mailed mortality information to each hospital on its Medicare patients and asked for comments by January 15, 1991. Each hospital received the summary data information (as published here), as well as a list of all Medicare patients whose stay in that hospital in FY 1989 was selected for the analysis. The comments we received are generally reproduced as submitted by the hospital. However, in instances where hospitals returned an annotated copy of the HCFA information sent on December 6, we did not publish that annotated material, even in cases where these were the only comments submitted by the hospital. We took this action because of patient privacy concerns and/or because it would have duplicated information already provided on the hospital's summary data sheet. However, we have published a standard statement to identify instances where we received this type of response. Additionally, in cases where the hospital's response exceeded the two-page limit, which was specified in our communication of December 6, we have published only the first two pages of the material received. No attempt has been made to edit or condense the response provided by the hospital.

In any project of this size, there will be instances where hospitals did not receive the information for comment or did not receive it timely. In fact, many hospitals were sent second copies of their specific information in an expeditious manner in order to allow every opportunity for review and comment. Even though it is possible that some of the nonresponding facilities never got the information or did not have adequate time to comment, we expect that these instances are few in number.

As noted previously, we have again included information on selected hospital characteristics such as the number of beds, occupancy rate, ownership, staffing, and specialty services. These particular characteristics and services were selected as those of most interest to Medicare beneficiaries. (Thus, for example, we do not include information on specialty services such as Neonatal Intensive Care Units.) This information was obtained from the AHA 1989 Annual Survey of Hospitals. Where hospitals did not provide information to AHA on a particular item, it has been listed as not available. This file consists of information voluntarily reported by hospitals to the AHA. In instances where the AHA records contained no information about a hospital included in the analysis, we have presented the most recent information from HCFA's OSCAR file.

Following are the AHA's definitions of each characteristic found on the hospital's summary page containing the FY 1989 summary data information.

SURVEY AND YEAR: AHA 1989 Source = American Hospital Association 1989 Annual Survey of Hospital Files

Total beds (#): Number of beds (including sub-acute beds), cribs, and pediatric and neonatal bassinets regularly maintained (set up, staffed, and ready for use) for inpatients as of the close of the reporting period; does not include bassinets for normal newborn infants.

Occupancy rate (percent): Ratio of average daily census to the average number of beds (statistical beds) maintained during the 12-month reporting period. (NOTE: The number of these "statistical beds" may differ from the bed count at the close of the reporting period.)

Ownership/control: State government, local government, district/authority, church, private nonprofit, private for profit, or Federal Government.

STAFFING (as of 09/30/88):

Total number of physicians: Total active and associate medical staff.

Percent of physicians who are board-certified specialists: Physicians who have passed an examination given by a medical specialty board and have been certified by that board as a specialist.

Medical residents/interns: Full-time equivalent (FTE) medical residents or interns.

Registered nurses: Full-time equivalent (FTE) registered nurses.

Licensed practical nurses: Full-time equivalent (FTE) licensed practical nurses.

AHA DEFINED SPECIALTY SERVICES:

Burn unit: Provides more intensive care to severely burned patients than the usual acute nursing care provided in medical and surgical units. Beds must be set up and staffed in a unit specifically designated for this service.

Cardiac intensive care: Provides patient care of a more specialized nature than the usual medical and surgical care, on the basis of physicians' orders and approved nursing care plans. The unit is staffed with specially trained nursing personnel and contains monitoring and specialized support or treatment equipment for patients who, because of heart seizure, open-heart surgery or other life-threatening conditions, require intensified, comprehensive observation and care. May include myocardial infarction, pulmonary care, and heart transplant units. Beds must be set up and staffed in a unit(s) specifically designated for this service.

Comprehensive Geriatric Assessment: Provides diagnostic and evaluation services that determine elderly patients' long-term care needs. Includes the assessment of medical conditions, functional activities and mental and emotional conditions, and incorporates these into a treatment plan which includes family and financial concerns as well as medical needs.

Hospice care: A program providing palliative care, chiefly medical relief of pain and supportive services, to terminally ill patients and assistance to their families in adjusting to the patients' illness and death.

Medical/surgical intensive care: Provides nursing care to adult and/or pediatric patients of a more intensive nature than the usual medical, surgical, pediatric, and/or psychiatric care on the basis of physicians' orders and approved nursing care plans. Included are medical-surgical, pediatric, and psychiatric (isolation) units. These units are staffed with specially trained nursing personnel and contain monitoring and specialized support equipment for patients who, because of shock, trauma, or life-threatening conditions, require intensified, comprehensive observation and care. These units may also include cardiac care when such services are not provided in a distinct cardiac care unit.

Organ transplant service equipment: The necessary staff and equipment to perform the surgical removal of a viable human organ (including kidney) from a donor, either alive or just deceased, and the surgical grafting of the organ to a suitably evaluated and prepared patient.

Other intensive care: Provides nursing care to adult and/or pediatric patients with a specialized disease or condition of a more intensive nature than the usual medical, surgical, pediatric and/or psychiatric care on the basis of physicians' orders and approved nursing plans. Examples reported include oncology or spinal cord injuries. These units are staffed with specially trained nursing personnel and contain monitoring and specialized support equipment appropriate for the patients' specialized conditions.

Rehabilitation unit: Unit having designated beds and providing a comprehensive array of multidisciplinary medical rehabilitation services.

Trauma center: Provides emergency and specialized intensive care to critically injured patients.

NOTE: Inquiries regarding the AHA data or requests for additional AHA data must be directed to the Director of the American Hospital Association's Hospital Data Center at (312) 280-6000.

Following are HCFA's Online Survey Certification and Reporting System (OSCAR) definitions of some characteristics found on the hospital's summary page containing the 1986, 1987, and 1988 mortality rates and ranges.

SURVEY AND YEAR: OSCAR 19__

Total beds (#): Total number of operational beds eligible for Medicare payment.

Ownership/control: Church; private; Federal, State, local government, or hospital district or authority; proprietary.

STAFFING:

Medical residents/interns: Full-time equivalent (FTE) medical residents or interns.

Registered nurses: Full-time equivalent (FTE) registered nurses.

Licensed practical nurses: Full-time equivalent (FTE) licensed practical nurses.

OSCAR DEFINED SPECIALTY SERVICES:

There are no specific definitions of specialty services in OSCAR. These characteristics are self-reported by each hospital at initial certification and recertification. However, they are generally understood to parallel the explicit AHA definitions.

Table 1

STATES BY REGION AND VOLUME

REGION		VOLUME	STATE
I	Boston	1	Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont
II	New York	2	New Jersey, Puerto Rico, Virgin Islands
		3	New York
III	Philadelphia	4	Delaware, District of Columbia, Maryland, Virginia, West Virginia
		5	Pennsylvania
IV	Atlanta	6	Alabama, Georgia
		7	Florida
		8	Kentucky, Mississippi, South Carolina
		9	North Carolina, Tennessee
V	Chicago	10	Illinois
		11	Indiana, Michigan
		12	Minnesota, Wisconsin
		13	Ohio

VI	Dallas	14	Arkansas, Oklahoma
		15	Louisiana, New Mexico
		16	Texas (A - L)
		17	Texas (M - Z)
VII	Kansas City	18	Iowa, Kansas
		19	Missouri, Nebraska
VIII	Denver	20	Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming
IX	San Francisco	21	American Samoa/Guam, Arizona, Hawaii, Nevada
		22	California (A - L)
		23	California (M - Z)
X	Seattle	24	Alaska, Idaho, Oregon, Washington

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Table 2

DIAGNOSTIC AND PROCEDURE CATEGORIES

The following lists the ICD-9-CM diagnostic and procedure codes used to classify and group patients for presentation:

CONDITION/PROCEDURE	ICD-9-CM CODES (D) = DIAGNOSTIC CODE (P) = PROCEDURE CODE
Heart Disorders/Procedures:	
Acute Myocardial Infarction	410 (D) (exclude 410 with 5th digit of 2 after 10/1/89)
Congestive Heart Failure	398.91, 402.01, 402.11, 402.91, 428.0, 428.1, 428.9 (all D)
Angioplasty	36.0 excluding 36.00, 36.03, 36.04, 36.09 (all P)
Coronary Artery Bypass Graft	36.1 (P)
Pacemaker Insertion, Initial	37.73, 37.74, 37.75, 37.77 (after 10/1/87 use 37.70—37.73) (all P)
Pulmonary Disorders:	
Pneumonia/Influenza	480-481, 482.2, 482.3, 482.9, 483, 485, 486, 487.0 (all D)
Chronic Obstructive Pulmonary Disease	491-492; 494; 496; and 466.0, 518.5, 518.82, and 786.09 when there is a secondary diagnosis of any 496 (all D)
Cerebrovascular Disorders/Procedures:	
Transient Cerebral Ischemia	433.1, 433.3, 435 (D) and exclude those patients with an endarterectomy, 38.12 (P) at the time of admission
Stroke	431, 434-434.9, 436 (all D)
Carotid Endarterectomy	38.12 (P) with 433.1 (D), 433.3 (D), or 435 (D) as principal diagnosis

Musculoskeletal Disorders/Procedures:

Fracture of Neck of Femur	820 (D)
Hip Replacement/Revision	81.5, 81.6 (exclude 81.69) (81.51—81.53 after 10/1/89) (all P)
Open Reduction of Fractured Femur	79.35 (P) on condition of 820 (D) as principal diagnosis

Genitourinary Procedures:

Prostatectomy	60.2, 60.3-60.69 (all P)
Hysterectomy	68.3-68.7 (P)

Gastrointestinal Procedures:

Cholecystectomy	51.22 (P)

Sepsis:

Sepsis	003.1, 020.2, 022.3, 036.2, 036.3, 036.89, 036.9, 038, 054.5 (all D)

Table 3

COMORBIDITY CONDITIONS
(all are D codes)

COMORBIDITY	ICD-9-CM CODES
Cancer	141-160.9, 162-172.9, 174-208.9
Chronic liver disease	571-572.8
Chronic renal disease	582-583.9, 585-587
Chronic cardiovascular disease	412-414.9, 426-429.1

Indiana

ADAMS COUNTY MEMORIAL HOSPITAL

805 High Street
Decatur, IN 46733

Medicare Provider Number: 150106

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	458	9.0	8.7	1.9	14.0	13.2	1.8	17.0	16.7	2.1
CONDITIONS:										
Acute Myocardial Infarction	13	15.4	21.5	*	23.1	24.0	*	30.8	27.0	*
Congestive Heart Failure	36	16.7	16.0	*	22.2	25.0	*	27.8	32.0	*
Pneumonia/Influenza	41	9.8	12.8	*	12.2	17.6	*	14.6	21.6	*
Chronic Obstructive Pulmonary Disease	6	0.0	4.3	*	0.0	8.0	*	0.0	11.4	*
Transient Cerebral Ischemia	7	0.0	2.0	*	0.0	4.5	*	0.0	7.2	*
Stroke	27	11.1	18.9	*	37.0	25.2	*	40.7	29.7	*
Hip Fracture	7	0.0	6.5	*	14.3	11.9	*	14.3	15.4	*
Sepsis	3	33.3	23.0	*	33.3	30.1	*	33.3	36.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	1	0.0	12.0	*	100.0	20.5	*	100.0	24.9	*
Prostatectomy	9	0.0	0.7	*	0.0	1.9	*	0.0	3.4	*
Cholecystectomy	14	0.0	1.0	*	0.0	1.7	*	0.0	2.2	*
Hysterectomy	4	0.0	2.9	*	0.0	5.7	*	0.0	7.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1988

Total Beds	100
Occupancy Rate	36
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	28
Percent of Physicians Board Certified Specialists	54
Medical Residents/Interns	0
Registered Nurses	45
Licensed Practical Nurses	7

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

ADAMS COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 150106

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	452	9.3	6.8	1.8	14.2	10.7	1.9	17.7	14.1	2.3
CONDITIONS:										
Acute Myocardial Infarction	9	11.1	18.6	*	11.1	21.0	*	11.1	24.0	*
Congestive Heart Failure	43	18.6	12.4	*	23.3	20.0	*	27.9	26.6	*
Pneumonia/Influenza	21	28.6	13.1	*	33.3	18.6	*	38.1	23.0	*
Chronic Obstructive Pulmonary Disease	5	0.0	4.2	*	0.0	9.0	*	0.0	13.4	*
Transient Cerebral Ischemia	7	0.0	1.1	*	0.0	2.4	*	0.0	3.6	*
Stroke	36	16.7	16.8	*	30.6	22.9	*	36.1	27.6	*
Hip Fracture	6	0.0	2.6	*	0.0	5.7	*	0.0	8.3	*
Sepsis	2	50.0	28.6	*	50.0	36.4	*	50.0	42.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	9	22.2	0.4	*	22.2	1.0	*	22.2	1.6	*
Cholecystectomy	7	0.0	2.5	*	14.3	5.7	*	14.3	8.8	*
Hysterectomy	6	0.0	0.4	*	0.0	0.9	*	0.0	1.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	407	11.8	8.3	2.4	15.2	12.4	2.6	18.2	15.6	2.4
CONDITIONS:										
Acute Myocardial Infarction	12	41.7	23.5	*	41.7	26.2	*	41.7	29.3	*
Congestive Heart Failure	26	30.8	14.7	*	30.8	23.1	*	30.8	29.8	*
Pneumonia/Influenza	23	13.0	17.1	*	30.4	24.0	*	34.8	29.0	*
Chronic Obstructive Pulmonary Disease	3	0.0	4.3	*	0.0	7.5	*	0.0	10.8	*
Transient Cerebral Ischemia	6	0.0	1.5	*	16.7	3.1	*	50.0	4.9	*
Stroke	33	30.3	19.1	*	33.3	26.2	*	36.4	31.3	*
Hip Fracture	8	12.5	3.3	*	12.5	6.5	*	12.5	8.9	*
Sepsis	4	0.0	30.9	*	25.0	39.0	*	50.0	45.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	3	33.3	2.7	*	33.3	5.7	*	33.3	7.9	*
Prostatectomy	14	0.0	0.4	*	0.0	1.0	*	0.0	1.7	*
Cholecystectomy	5	20.0	3.0	*	20.0	6.2	*	40.0	9.3	*
Hysterectomy	5	0.0	0.1	*	0.0	0.2	*	0.0	0.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

AMI CULVER UNION HOSPITAL

1710 Lafayett Rd
Crawfordsville, IN 47933

Medicare Provider Number: 150022

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,087	8.9	8.3	1.2	13.7	12.9	1.1	16.9	16.6	1.1
CONDITIONS:										
Acute Myocardial Infarction	28	42.9	30.1	*	42.9	33.4	*	46.4	37.2	*
Congestive Heart Failure	58	12.1	13.4	4.7	25.9	21.2	7.0	31.0	27.9	6.8
Pneumonia/Influenza	54	11.1	15.2	6.5	14.8	21.0	9.3	16.7	25.8	11.3
Chronic Obstructive Pulmonary Disease	6	0.0	11.7	*	33.3	22.4	*	33.3	30.3	*
Transient Cerebral Ischemia	22	0.0	1.8	*	4.5	4.0	*	9.1	6.5	*
Stroke	46	26.1	17.8	*	28.3	23.2	*	32.6	27.4	*
Hip Fracture	29	3.4	5.0	*	13.8	9.4	*	13.8	12.5	*
Sepsis	15	26.7	29.9	*	40.0	38.4	*	40.0	45.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	0.0	4.1	*	0.0	8.9	*	0.0	13.4	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	12	0.0	3.6	*	8.3	7.3	*	8.3	10.2	*
Open Reduction of Hip Fracture	18	5.6	4.2	*	11.1	8.1	*	11.1	10.8	*
Prostatectomy	37	0.0	0.9	*	0.0	2.1	*	2.7	3.6	*
Cholecystectomy	18	0.0	1.9	*	0.0	2.9	*	0.0	3.7	*
Hysterectomy	3	0.0	0.1	*	0.0	0.2	*	0.0	0.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	86
Occupancy Rate	58
Ownership/Control	Private, For Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	34
Percent of Physicians Board Certified Specialists	53
Medical Residents/Interns	0
Registered Nurses	45
Licensed Practical Nurses	15

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

AMI CULVER UNION HOSPITAL

Medicare Provider Number: 150022

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	988	9.9	8.7	1.5	15.0	13.3	1.5	18.5	17.0	1.6
CONDITIONS:										
Acute Myocardial Infarction	25	32.0	27.6	*	32.0	30.3	*	32.0	33.5	*
Congestive Heart Failure	44	15.9	13.2	*	20.5	20.2	*	22.7	26.3	*
Pneumonia/Influenza	57	19.3	16.2	5.3	24.6	22.0	5.6	29.8	26.6	6.1
Chronic Obstructive Pulmonary Disease	2	50.0	19.2	*	100.0	34.8	*	100.0	46.7	*
Transient Cerebral Ischemia	20	0.0	1.8	*	5.0	3.9	*	10.0	6.3	
Stroke	38	18.4	19.4	*	26.3	25.6	*	31.6	30.2	
Hip Fracture	31	6.5	5.4	*	12.9	10.3	*	12.9	13.7	
Sepsis	24	29.2	28.4	*	58.3	37.0	*	66.7	43.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	4.7	*	0.0	8.7	*	0.0	12.1	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	8	0.0	5.7	*	12.5	11.6	*	12.5	15.9	
Open Reduction of Hip Fracture	19	10.5	4.6	*	15.8	9.1	*	15.8	12.3	*
Prostatectomy	33	3.0	1.0	*	3.0	2.5	*	3.0	4.2	*
Cholecystectomy	21	0.0	2.0	*	0.0	3.6	*	4.8	4.8	*
Hysterectomy	6	0.0	0.2	*	0.0	0.4	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	972	9.4	8.2	1.3	13.5	12.5	1.3	17.1	16.1	1.4
CONDITIONS:										
Acute Myocardial Infarction	28	39.3	30.3	*	46.4	34.1	*	46.4	38.2	
Congestive Heart Failure	48	12.5	14.5	*	20.8	22.1	*	29.2	28.8	*
Pneumonia/Influenza	57	19.3	14.8	7.7	22.8	20.4	6.9	26.3	24.9	5.9
Chronic Obstructive Pulmonary Disease	5	0.0	9.5	*	0.0	17.6	*	0.0	23.9	*
Transient Cerebral Ischemia	18	0.0	1.4	*	0.0	3.1	*	0.0	4.9	*
Stroke	39	17.9	17.7	*	23.1	23.7	*	25.6	28.4	
Hip Fracture	26	7.7	5.8	*	7.7	11.1	*	11.5	14.9	*
Sepsis	15	6.7	20.3	*	20.0	26.9	*	20.0	32.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	1.2	*	0.0	2.8	*	0.0	4.4	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	8	0.0	3.5		0.0	6.8		12.5	9.2	*
Open Reduction of Hip Fracture	12	8.3	4.9	*	8.3	10.0		8.3	14.0	*
Prostatectomy	32	0.0	1.0	*	0.0	2.3	*	3.1	3.8	
Cholecystectomy	19	0.0	2.7	*	0.0	4.8	*	0.0	6.4	*
Hysterectomy	7	0.0	0.6	*	0.0	1.1		0.0	1.5	

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

5.1

AMI Culver Union Hospital

January 11, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
Attn: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, MD. 21207

Dear Mrs. Kappert,

Thank you for the opportunity to provide comment on the mortality information the Health Care Financing Administration (HCFA) will be publishing regarding AMI Culver Union Hospital. The following is to be attached to our hospital's specific report prior to public disclosure.

AMI Culver Union is a 120 bed acute care center fully accredited by the Joint Commission on Accreditation of Health Care Organizations. Our case mix includes many patients with major medical and surgical illnesses. We are a full service health care center offering specialty areas in oncology, cardiac rehabilitation, and psychological counseling as well as general medicine and surgery.

The hospital and medical staff conduct ongoing review of the medical record of each patient who expires at this facility for appropriate medical management and overall quality of care. Mortality review is an important part of our quality assurance program. Peer review activities are an integral part of monitoring the health care delivery system of AMI Culver Union.

Our hospital's specific mortality data, as reported by HCFA, for Medicare patients has been carefully reviewed by: Administration, Medical Staff, Director of Medical Records, and Director of Community Relations. For the overall mortality rate and for all those conditions where there were enough cases to determine a standard deviation, AMI Culver Union Hospital performed below the predicted mortality rate or was within one standard deviation of the predicted rate. In such circumstances, the amount in which the hospital was above the predicted rate is deemed statistically insignificant.

The Director of Medical Records has indicated that there are some significant differences between the HCFA Summary Report and our hospital's records. The HCFA Report states that there were 97 Medicare deaths within 30 days following admission to our facility and a total of 1,087 Medicare cases from Oct. 1988 - Sept. 1989. For that same period, our records show 89 Medicare deaths in our hospital and 1,651 Medicare discharges.

We at AMI Culver Union Hospital fully support health care consumer education. However, we emphasize that the HCFA mortality data are not, in themselves, measures of hospital performance. Under no circumstances should they be used as the basis for judging the quality of care provided by hospitals.

Sincerely,

Michael L. Collins, F.A.C.H.E.
Executive Director

BALL MEMORIAL HOSPITAL

2401 University Avenue
Muncie, IN 47303

Medicare Provider Number: 150089

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	4,089	10.7	8.5	0.5	16.2	13.0	0.9	19.6	16.8	0.7
CONDITIONS:										
Acute Myocardial Infarction	115	37.4	27.1	7.3	41.7	30.1	7.8	44.3	33.6	7.7
Congestive Heart Failure	209	18.2	13.0	4.0	26.8	20.8	4.7	29.7	27.5	3.8
Pneumonia/Influenza	178	24.2	14.9	4.6	30.3	20.7	4.9	33.7	25.6	4.7
Chronic Obstructive Pulmonary Disease	71	14.1	6.4	4.9	21.1	11.4	6.6	26.8	15.8	7.0
Transient Cerebral Ischemia	47	2.1	1.6	*	6.4	3.7	*	12.8	6.0	*
Stroke	148	27.0	17.9	4.8	35.1	23.7	5.7	39.9	28.1	5.9
Hip Fracture	122	4.9	4.5	1.9	8.2	8.5	2.9	12.3	11.5	3.3
Sepsis	33	42.4	30.8	*	54.5	38.4	*	60.6	45.6	*
PROCEDURES:										
Angioplasty	24	0.0	2.8	*	0.0	3.9	*	0.0	5.3	*
Coronary Artery Bypass Graft	35	5.7	5.4	*	8.6	7.7	*	14.3	9.1	*
Initial Pacemaker Insertion	28	0.0	3.4	*	0.0	6.1	*	0.0	8.8	*
Carotid Endarterectomy	12	0.0	1.6	*	8.3	3.2	*	8.3	4.8	*
Hip Replacement/Reconstruction	89	3.4	2.2	1.8	5.6	4.2	3.5	9.0	6.0	4.5
Open Reduction of Hip Fracture	49	4.1	4.3	*	6.1	8.3	*	10.2	11.3	*
Prostatectomy	133	3.8	1.4	1.6	5.3	3.1	1.8	6.0	5.2	2.0
Cholecystectomy	91	4.4	3.1	2.8	8.8	5.7	4.2	8.8	7.4	4.6
Hysterectomy	37	0.0	0.9	*	0.0	1.8	*	0.0	2.6	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	552
Occupancy Rate	63
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	153
Percent of Physicians Board Certified Specialists	63
Medical Residents/Interns	47
Registered Nurses	279
Licensed Practical Nurses	118

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	Yes
Rehabilitation Unit	Yes
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

BALL MEMORIAL HOSPITAL

Medicare Provider Number: 150089

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	4,041	9.8	8.0	0.5	15.4	12.5	0.8	19.3	16.2	0.7
CONDITIONS:										
Acute Myocardial Infarction	119	28.6	27.5	5.1	32.8	30.6	4.7	35.3	34.0	4.5
Congestive Heart Failure	230	22.2	13.9	3.6	33.5	21.7	4.3	38.7	28.2	4.2
Pneumonia/Influenza	145	19.3	14.6	5.5	24.8	20.1	6.2	28.3	24.5	5.2
Chronic Obstructive Pulmonary Disease	62	9.7	7.6	4.3	16.1	13.6	5.6	25.8	18.8	7.2
Transient Cerebral Ischemia	72	4.2	1.7	3.6	5.6	3.7	3.7	6.9	5.9	3.9
Stroke	138	20.3	18.7	3.4	27.5	24.8	4.0	36.2	29.4	5.7
Hip Fracture	127	10.2	5.6	3.0	13.4	10.4	3.5	15.0	13.6	3.2
Sepsis	24	37.5	31.7	*	37.5	40.4	*	41.7	47.2	*
PROCEDURES:										
Angioplasty	20	5.0	3.8	*	10.0	4.7	*	10.0	5.8	*
Coronary Artery Bypass Graft	31	6.5	6.2	*	6.5	8.6	*	9.7	10.0	*
Initial Pacemaker Insertion	16	0.0	4.2	*	0.0	7.8	*	0.0	11.1	*
Carotid Endarterectomy	9	0.0	1.4	*	0.0	2.6	*	11.1	3.8	*
Hip Replacement/Reconstruction	83	3.6	3.3	2.0	6.0	6.3	3.0	6.0	8.5	3.7
Open Reduction of Hip Fracture	58	5.2	4.7	2.9	6.9	9.3	4.3	8.6	12.4	5.4
Prostatectomy	141	1.4	1.4	1.0	5.0	3.5	2.0	7.1	5.6	2.7
Cholecystectomy	81	1.2	1.5	1.4	1.2	2.7	2.4	2.5	3.7	2.5
Hysterectomy	31	0.0	1.0	*	0.0	2.0	*	6.5	3.0	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	4,042	9.8	8.0	0.5	14.8	12.3	0.8	18.6	15.9	0.7
CONDITIONS:										
Acute Myocardial Infarction	121	30.6	28.6	4.3	38.0	32.2	5.0	42.1	35.8	5.3
Congestive Heart Failure	196	21.4	13.9	4.2	29.6	22.0	4.6	38.3	29.0	5.4
Pneumonia/Influenza	136	19.1	14.1	5.9	25.7	19.7	6.3	28.7	24.3	5.8
Chronic Obstructive Pulmonary Disease	78	14.1	8.6	5.6	19.2	15.2	6.2	25.6	20.7	6.6
Transient Cerebral Ischemia	55	1.8	1.5	1.7	1.8	3.3	2.7	1.8	5.2	4.2
Stroke	124	25.0	19.3	6.2	31.5	25.4	6.2	37.9	30.1	6.4
Hip Fracture	114	5.3	5.5	3.3	8.8	10.4	3.3	14.9	13.9	3.3
Sepsis	43	34.9	29.1	*	37.2	37.0	*	41.9	43.0	*
PROCEDURES:										
Angioplasty	7	0.0	6.1	*	0.0	7.3	*	0.0	8.7	*
Coronary Artery Bypass Graft	26	3.8	7.3	*	11.5	10.6	*	11.5	12.3	*
Initial Pacemaker Insertion	36	5.6	3.9	*	11.1	7.4	*	16.7	10.7	*
Carotid Endarterectomy	7	0.0	1.5	*	0.0	2.7	*	0.0	3.8	*
Hip Replacement/Reconstruction	84	4.8	3.1	3.3	4.8	6.2	3.0	9.5	8.6	3.2
Open Reduction of Hip Fracture	59	3.4	4.9	3.5	6.8	9.7	7.4	15.3	13.2	6.8
Prostatectomy	140	2.1	1.1	1.2	4.3	2.5	2.5	9.3	4.1	3.0
Cholecystectomy	82	4.9	4.2	2.4	11.0	7.2	3.8	14.6	9.2	4.9
Hysterectomy	21	0.0	0.5	*	0.0	1.1	*	4.8	1.6	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

BALL MEMORIAL HOSPITAL

Medicare Provider Number: 15-0089

January 14, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, MD 21207

Dear Mrs. Kappert:

This letter is in response to your release of selected Medicare hospital mortality information for fiscal years 1987, 1988, and 1989. Our comments and concerns regarding the methodology used to determine these hospital specific rates are outlined below:

1. HCFA's decision to look at death rates more than 30 days after admission weakens the inferences about the quality of the treatment intervention by a specific hospital because of the increased probability of other factors that may have contributed to the patient's death. Such factors could logically include chance accidents and disease processes that may not have been evident at the time of the hospitalization. Several of the patients included in our data base died many days after their discharge from the hospital.

2. The severity of illness for patients of specific hospitals is not adequately considered by HCFA's model. Referral institutions, like Ball Memorial Hospital, Inc., treat a significant number of more severely ill patients which realistically result in higher mortality rates.

3. The published mortality rates lead one to believe the cause of death is a result of illness in the diagnostic category listed when in fact, the diagnostic category listed is the principal diagnosis, and may not be the cause of death.

4. The mix of services provided by a hospital was not adequately factored into the methodology. Because we have an inpatient oncology program, a radiation therapy program, a hospice program, numerous intensive care units, an open heart surgery program, cardiac catheterization and angioplasty program, and other specialty services, we should expect our mortality rate to be higher than hospitals not offering similar services. These facts, however, were not adequately considered when computing your data.

BALL MEMORIAL HOSPITAL, INC.
2401 University Ave. • Muncie, IN 47303-3499 • (317) 747-3111 • FAX (317) 747-0137
Member of Voluntary Hospitals of America, Inc.®

5. The observed and predicted mortality rates are not statistically valid for the low volume of cases in several conditions and procedures categories. Therefore, the predicted rate must be considered uninterpretable, because you cannot know whether there is a real difference between the observed rate and what would be expected for our hospital.

6. The comorbidity variables need to be expanded in order to more accurately identify the patient's severity of illness. Also, a patient may have more than one comorbid condition and this needs to be considered when developing the predicted mortality rate.

7. The available data does not allow HCFA to measure patient characteristics that could have a significant impact on the expected mortality rate.

8. HCFA needs to improve their data validation techniques. We are still finding several patient data errors in the information we receive from HCFA.

We believe your information crudely identifies differences in mortality among hospital patient populations but does not and cannot explain why they are different. Much of the difference in hospital mortality, particularly for deaths that occur after the individual left the hospital, may be explained by other factors which can only be found through additional analysis. We continue to believe your intent to provide information has some merit, but still maintain your methodology needs to be more sophisticated in identifying severity of illness for patients and individual service differences in hospitals.

Cordially,

Mitchell C. Carson

Mitchell C. Carson
Vice President/Operations

/mcm

cc: Robert T. Brodhead, President and CEO, Ball Memorial Hospital
Carol McCarthy, President AHA
Ken Stella, President IHA

BARTHOLOMEW COUNTY HOSPITAL

2400 East 17th Street
Columbus, IN 47201

Medicare Provider Number: 150112

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,988	8.9	8.4	0.7	13.8	12.7	0.8	17.6	16.1	1.1
CONDITIONS:										
Acute Myocardial Infarction	62	17.7	22.1	6.7	25.8	24.8	6.7	29.0	27.8	5.9
Congestive Heart Failure	91	15.4	14.2	4.9	22.0	21.7	4.8	27.5	28.1	4.9
Pneumonia/Influenza	95	14.7	16.3	4.1	25.3	22.0	6.5	27.4	26.5	5.1
Chronic Obstructive Pulmonary Disease	17	11.8	11.2	*	35.3	17.5	*	35.3	23.0	*
Transient Cerebral Ischemia	33	3.0	2.2	*	3.0	4.9	*	15.2	7.8	*
Stroke	86	15.1	19.4	4.7	19.8	26.7	6.3	23.3	31.2	6.5
Hip Fracture	75	8.0	7.2	3.2	10.7	12.8	4.0	13.3	16.5	4.5
Sepsis	27	40.7	33.0	*	51.9	41.5	*	66.7	48.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	14	0.0	2.3	*	7.1	5.2	*	7.1	8.3	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	51	2.0	2.9	2.6	3.9	5.5	3.9	5.9	7.6	4.4
Open Reduction of Hip Fracture	37	13.5	7.3	*	16.2	13.4	*	18.9	17.4	*
Prostatectomy	50	0.0	0.5	*	0.0	1.2	*	0.0	2.1	*
Cholecystectomy	34	0.0	3.0	*	2.9	5.3	*	8.8	7.0	*
Hysterectomy	20	5.0	0.8	*	5.0	1.6	*	5.0	2.3	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	205
Occupancy Rate	64
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	96
Percent of Physicians Board Certified Specialists	69
Medical Residents/Interns	0
Registered Nurses	186
Licensed Practical Nurses	106

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

BARTHOLOMEW COUNTY HOSPITAL

Medicare Provider Number: 150112

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,874	9.0	8.1	0.9	13.1	12.3	1.0	16.8	15.7	1.2
CONDITIONS:										
Acute Myocardial Infarction	65	35.4	27.4	11.3	41.5	30.9	11.4	43.1	34.3	10.4
Congestive Heart Failure	103	14.6	17.5	6.8	21.4	26.8	8.2	31.1	34.0	7.1
Pneumonia/Influenza	100	26.0	17.9	6.1	32.0	24.2	6.0	34.0	29.1	5.2
Chronic Obstructive Pulmonary Disease	21	14.3	9.1	*	23.8	14.7	*	33.3	20.0	*
Transient Cerebral Ischemia	38	7.9	2.0	*	10.5	4.4	*	13.2	7.0	*
Stroke	70	12.9	18.5	8.0	20.0	26.0	11.0	22.9	30.7	11.9
Hip Fracture	67	7.5	6.5	3.5	10.4	11.6	4.1	14.9	14.8	4.4
Sepsis	9	55.6	30.8	*	55.6	36.8	*	66.7	42.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	16	12.5	5.1	*	12.5	8.2	*	12.5	10.8	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	41	2.4	2.8	*	2.4	5.2	*	4.9	6.7	*
Open Reduction of Hip Fracture	32	12.5	5.8	*	15.6	10.7	*	18.8	13.8	*
Prostatectomy	57	0.0	0.7	1.3	0.0	1.8	2.4	3.5	2.9	2.3
Cholecystectomy	32	6.3	1.6	*	6.3	2.6	*	6.3	3.5	*
Hysterectomy	17	0.0	0.7	*	0.0	1.3	*	0.0	1.9	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,870	8.7	7.6	0.9	13.7	11.5	1.1	16.6	14.7	1.2
CONDITIONS:										
Acute Myocardial Infarction	57	29.8	28.0	9.1	40.4	31.1	8.9	42.1	34.3	8.4
Congestive Heart Failure	96	14.6	15.1	3.7	22.9	22.9	4.7	29.2	29.6	4.7
Pneumonia/Influenza	51	21.6	18.3	6.7	27.5	24.7	6.5	31.4	30.0	7.4
Chronic Obstructive Pulmonary Disease	17	17.6	4.7	*	23.5	8.7	*	23.5	12.6	*
Transient Cerebral Ischemia	36	2.8	1.8	*	8.3	4.0	*	13.9	6.3	*
Stroke	74	16.2	17.4	4.6	20.3	24.0	6.1	23.0	28.1	7.2
Hip Fracture	63	1.6	5.7	4.5	11.1	10.6	5.2	11.1	13.9	6.3
Sepsis	19	52.6	41.3	*	73.7	49.7	*	73.7	57.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	20	0.0	2.5	*	0.0	4.8	*	0.0	7.1	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	69	1.4	2.8	4.6	8.7	5.4	4.5	8.7	7.3	4.6
Open Reduction of Hip Fracture	27	0.0	5.7	*	7.4	10.9	*	7.4	14.3	*
Prostatectomy	65	0.0	0.7	1.2	0.0	1.6	2.1	1.5	2.7	2.3
Cholecystectomy	40	2.5	3.1	*	2.5	5.6	*	7.5	7.3	*
Hysterectomy	19	0.0	0.5	*	0.0	0.9	*	0.0	1.4	

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

BEDFORD MEDICAL CENTER

2900 West 16th Street
Bedford, IN 47421

Medicare Provider Number: 150124

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	800	10.6	10.1	1.8	16.1	14.9	2.1	20.1	18.8	2.4
CONDITIONS:										
Acute Myocardial Infarction	29	31.0	29.6	*	31.0	32.9	*	34.5	36.3	*
Congestive Heart Failure	56	14.3	17.3	8.9	19.6	26.5	10.3	28.6	33.6	9.5
Pneumonia/Influenza	54	13.0	17.9	9.4	20.4	24.3	10.3	25.9	29.3	8.3
Chronic Obstructive Pulmonary Disease	8	0.0	4.6	*	0.0	9.7	*	0.0	14.6	*
Transient Cerebral Ischemia	17	0.0	2.3	*	0.0	4.9	*	5.9	7.8	*
Stroke	25	32.0	20.9	*	36.0	27.1	*	36.0	31.3	*
Hip Fracture	28	17.9	6.7	*	25.0	12.1	*	32.1	16.0	*
Sepsis	7	0.0	21.2	*	28.6	28.0	*	28.6	33.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	5	0.0	1.6	*	0.0	3.2	*	0.0	4.6	*
Hip Replacement/Reconstruction	4	0.0	1.0	*	0.0	1.9	*	0.0	2.8	*
Open Reduction of Hip Fracture	8	37.5	9.0	*	37.5	16.2	*	62.5	20.5	*
Prostatectomy	19	0.0	1.4	*	10.5	3.4	*	10.5	5.7	*
Cholecystectomy	23	4.3	2.9	*	13.0	4.9	*	21.7	6.0	*
Hysterectomy	5	0.0	0.7	*	0.0	1.6	*	0.0	2.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	117
Occupancy Rate	41
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	43
Percent of Physicians Board Certified Specialists	58
Medical Residents/Interns	0
Registered Nurses	72
Licensed Practical Nurses	12

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	Yes
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

BEDFORD MEDICAL CENTER

Medicare Provider Number: 150124

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	862	10.9	9.1	1.7	15.9	14.0	1.9	19.3	17.9	2.1
CONDITIONS:										
Acute Myocardial Infarction	23	34.8	33.8	*	34.8	37.4	*	39.1	41.0	*
Congestive Heart Failure	63	15.9	17.5	7.4	20.6	26.9	10.3	27.0	34.6	13.2
Pneumonia/Influenza	34	8.8	18.2	*	26.5	25.0	*	32.4	30.2	*
Chronic Obstructive Pulmonary Disease	12	0.0	4.5	*	0.0	8.3	*	8.3	11.9	*
Transient Cerebral Ischemia	17	0.0	2.2	*	0.0	4.7	*	0.0	7.4	*
Stroke	28	32.1	20.9	*	35.7	28.2	*	39.3	32.9	*
Hip Fracture	25	4.0	5.2	*	8.0	9.8	*	8.0	12.9	*
Sepsis	7	28.6	25.6	*	28.6	31.8	*	28.6	37.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	0.7	*	0.0	1.7	*	0.0	2.6	*
Carotid Endarterectomy	5	20.0	1.5	*	20.0	2.7	*	20.0	3.9	*
Hip Replacement/Reconstruction	13	0.0	2.4	*	0.0	4.9	*	0.0	6.9	*
Open Reduction of Hip Fracture	8	12.5	5.1	*	12.5	9.5	*	12.5	12.4	*
Prostatectomy	12	0.0	1.7	*	16.7	3.6	*	16.7	5.1	*
Cholecystectomy	25	8.0	5.6	*	16.0	9.1	*	16.0	11.5	*
Hysterectomy	1	0.0	0.3	*	0.0	0.5	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	826	10.3	10.0	1.1	15.4	15.1	1.3	18.8	19.0	1.4
CONDITIONS:										
Acute Myocardial Infarction	25	28.0	28.8	*	32.0	32.9	*	32.0	36.7	*
Congestive Heart Failure	58	15.5	19.4	8.3	25.9	28.8	7.9	32.8	36.2	7.9
Pneumonia/Influenza	30	20.0	18.2	*	30.0	24.5	*	36.7	29.6	*
Chronic Obstructive Pulmonary Disease	10	0.0	8.2	*	0.0	14.1	*	0.0	19.1	*
Transient Cerebral Ischemia	21	14.3	2.3	*	14.3	5.2	*	19.0	8.3	*
Stroke	35	31.4	18.5	*	37.1	25.1	*	37.1	29.4	*
Hip Fracture	12	16.7	8.5	*	25.0	15.4	*	25.0	19.9	*
Sepsis	10	60.0	30.4	*	60.0	38.3	*	70.0	45.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	4.3	*	0.0	9.0	*	25.0	13.3	*
Carotid Endarterectomy	12	0.0	2.1	*	8.3	3.9	*	8.3	5.8	*
Hip Replacement/Reconstruction	3	33.3	3.2	*	33.3	5.8	*	33.3	7.4	*
Open Reduction of Hip Fracture	7	14.3	9.0	*	14.3	17.5	*	14.3	23.4	*
Prostatectomy	20	0.0	1.6	*	5.0	3.9	*	5.0	6.4	*
Cholecystectomy	28	17.9	5.1	*	17.9	8.2	*	17.9	10.0	*
Hysterectomy	4	0.0	0.2	*	0.0	0.3	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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(812) 279-3581

HOSPITAL AND HEALTH CARE CENTER

January 14, 1991

Mrs. Sandra Kappert
Health Care Financing Administration
Health Standards and Quality Bureau
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Mrs. Kappert:

I am writing these comments in response to the Medicare Hospital Mortality Information that I received recently from your department. One of my main comments regarding this data is the difficulty that people will have in understanding it. For example, in the category of "all causes", we have a total of 800 cases. The observed mortality is 10.6 compared to a predicted mortality of 10.1 with a standard deviation of 1.8. After applying the appropriate calculation using the standard deviation to the predicted mortality, it becomes 13.6 which puts us well within the range. I wonder how many people are going to understand this.

Most of the other categories and procedures in our mortality tables do not contain a standard deviation because the numbers that we have are too small to permit a satisfactory estimation of the standard deviation; therefore, it is impossible to draw any conclusions from the data. However, some of our observed mortality rates are higher than the predicted, which tends to make us look bad, but we are dealing with such small numbers that one case either way could greatly distort the outcome. Again, I doubt that most people would understand this and would tend to draw the conclusion that since our observed is higher than our predicted, that we are automatically bad.

We reviewed the individual cases of those categories that had a higher observed outcome than predicted and could find no evidence of anything that occurred in their care that could be in any way related to this.

Under the hospital characteristics, I would like to point out that we do have a cardiac intensive care unit and we do treat a lot of trauma in our emergency department. Thank you.

Sincerely,

Donald W. Dodds
Chief Executive Officer

DWD:ke

2900 W. SIXTEENTH ST. · BEDFORD, INDIANA 47421

BLACKFORD COUNTY HOSPITAL

503 East Van Cleve Street
Hartford City, IN 47348

Medicare Provider Number: 150114

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	277	14.4	10.7	3.3	20.6	16.0	3.7	24.9	20.2	4.2
CONDITIONS:										
Acute Myocardial Infarction	7	28.6	34.4	*	28.6	38.2	*	42.9	42.2	*
Congestive Heart Failure	10	50.0	19.2	*	50.0	28.7	*	60.0	36.6	*
Pneumonia/Influenza	23	17.4	15.7	*	26.1	21.9	*	39.1	26.7	*
Chronic Obstructive Pulmonary Disease	6	0.0	7.4	*	0.0	13.0	*	0.0	18.1	*
Transient Cerebral Ischemia	2	0.0	2.5	*	0.0	5.9	*	0.0	9.8	*
Stroke	15	26.7	22.4	*	26.7	29.7	*	26.7	34.9	*
Hip Fracture	4	0.0	7.5	*	0.0	12.9	*	0.0	16.2	*
Sepsis	5	20.0	28.1	*	40.0	35.2	*	40.0	41.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	9.2	*	0.0	16.1	*	0.0	20.0	*
Open Reduction of Hip Fracture	0									
Prostatectomy	2	0.0	0.6	*	0.0	1.4	*	0.0	2.4	*
Cholecystectomy	6	0.0	1.2	*	0.0	1.9	*	0.0	2.5	*
Hysterectomy	2	0.0	2.5	*	0.0	5.4	*	0.0	7.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	60
Occupancy Rate	37
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	11
Percent of Physicians Board Certified Specialists	27
Medical Residents/Interns	0
Registered Nurses	18
Licensed Practical Nurses	11

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

BLACKFORD COUNTY HOSPITAL

Medicare Provider Number: 150114

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	313	13.7	10.9	3.0	18.2	15.9	2.8	21.4	20.0	2.6
CONDITIONS:										
Acute Myocardial Infarction	14	42.9	38.8	*	50.0	42.6	*	50.0	47.0	*
Congestive Heart Failure	18	33.3	14.2	*	38.9	21.4	*	44.4	27.6	*
Pneumonia/Influenza	24	12.5	17.8	*	16.7	24.2	*	25.0	29.0	*
Chronic Obstructive Pulmonary Disease	6	16.7	8.9	*	16.7	16.9	*	16.7	23.9	*
Transient Cerebral Ischemia	3	0.0	2.2	*	33.3	4.6	*	33.3	7.3	*
Stroke	17	47.1	22.1	*	58.8	28.8	*	58.8	33.8	*
Hip Fracture	10	20.0	7.6	*	30.0	14.0	*	30.0	18.3	*
Sepsis	3	33.3	20.5	*	33.3	25.2	*	33.3	30.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	3	0.0	1.3	*	0.0	3.3	*	0.0	5.8	*
Cholecystectomy	6	16.7	1.9	*	16.7	3.8	*	16.7	5.1	*
Hysterectomy	0									

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	314	12.1	10.0	2.4	16.9	15.0	2.4	20.1	19.0	2.4
CONDITIONS:										
Acute Myocardial Infarction	12	41.7	29.8	*	41.7	32.5	*	41.7	35.8	*
Congestive Heart Failure	18	16.7	16.4	*	16.7	23.7	*	16.7	30.0	*
Pneumonia/Influenza	20	10.0	16.6	*	20.0	22.5	*	20.0	27.0	*
Chronic Obstructive Pulmonary Disease	8	0.0	7.3	*	0.0	13.0	*	0.0	17.6	*
Transient Cerebral Ischemia	3	0.0	1.3	*	0.0	2.9	*	0.0	4.7	*
Stroke	12	41.7	21.2	*	50.0	28.0	*	50.0	33.0	*
Hip Fracture	13	23.1	8.2	*	46.2	14.8	*	53.8	18.8	*
Sepsis	3	0.0	22.9	*	0.0	29.2	*	0.0	33.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	33.3	8.3	*	66.7	16.3	*	66.7	21.4	*
Open Reduction of Hip Fracture	4	50.0	9.0	*	75.0	16.8	*	75.0	21.3	*
Prostatectomy	1	0.0	0.6	*	0.0	1.2	*	0.0	1.9	*
Cholecystectomy	5	0.0	10.9	*	0.0	19.3	*	0.0	22.3	*
Hysterectomy	1	0.0	1.1	*	0.0	1.7	*	0.0	2.2	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

BLOOMINGTON HOSPITAL

P O Box 1149
Bloomington, IN 47401

Medicare Provider Number: 150051

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,457	9.4	9.1	0.6	13.2	13.9	0.7	16.6	17.7	0.9
CONDITIONS:										
Acute Myocardial Infarction	71	26.8	26.6	5.3	29.6	29.9	5.6	31.0	33.2	6.1
Congestive Heart Failure	149	14.8	15.0	2.9	21.5	23.3	5.2	26.8	30.3	5.6
Pneumonia/Influenza	134	14.9	15.9	3.3	19.4	21.8	3.8	20.1	26.3	5.2
Chronic Obstructive Pulmonary Disease	23	4.3	6.0	*	8.7	10.1	*	13.0	13.8	*
Transient Cerebral Ischemia	34	0.0	1.8	*	2.9	4.2	*	11.8	6.7	*
Stroke	98	25.5	21.7	5.6	30.6	28.2	4.8	33.7	32.7	4.8
Hip Fracture	60	11.7	6.2	5.3	15.0	11.2	5.8	16.7	14.6	6.1
Sepsis	21	14.3	21.1	*	14.3	27.8	*	14.3	32.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	21	9.5	2.3	*	14.3	5.0	*	19.0	7.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	22	0.0	3.4	*	4.5	6.5	*	4.5	8.8	*
Open Reduction of Hip Fracture	33	9.1	6.1	*	12.1	11.5	*	12.1	15.1	*
Prostatectomy	99	1.0	1.7	1.4	1.0	3.7	2.6	3.0	5.7	2.9
Cholecystectomy	58	0.0	3.8	4.3	0.0	7.0	7.3	5.2	9.2	5.0
Hysterectomy	25	0.0	0.3	*	0.0	0.6	*	0.0	1.0	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	285
Occupancy Rate	67
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	120
Percent of Physicians Board Certified Specialists	74
Medical Residents/Interns	0
Registered Nurses	264
Licensed Practical Nurses	103

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	Yes
Rehabilitation Unit	Yes
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

BLOOMINGTON HOSPITAL

Medicare Provider Number: 150051

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,422	9.0	8.9	0.6	13.5	13.8	0.7	16.8	17.6	0.8
CONDITIONS:										
Acute Myocardial Infarction	67	20.9	29.7	8.8	23.9	33.0	8.6	26.9	36.4	9.1
Congestive Heart Failure	138	10.1	14.4	6.3	15.9	21.9	8.0	23.9	28.3	7.5
Pneumonia/Influenza	106	11.3	16.2	5.1	16.0	21.9	6.5	19.8	26.3	6.3
Chronic Obstructive Pulmonary Disease	23	4.3	5.9	*	8.7	11.4	*	13.0	16.0	*
Transient Cerebral Ischemia	35	0.0	1.9	*	0.0	4.1	*	0.0	6.5	*
Stroke	77	29.9	23.2	7.9	37.7	30.0	7.5	39.0	34.7	6.3
Hip Fracture	77	9.1	6.2	3.6	11.7	11.5	3.7	13.0	14.9	4.2
Sepsis	33	21.2	22.5	*	27.3	29.4	*	27.3	35.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	13	7.7	6.1	*	15.4	10.4	*	15.4	14.6	*
Carotid Endarterectomy	4	0.0	1.4	*	0.0	2.7	*	0.0	4.0	*
Hip Replacement/Reconstruction	40	7.5	4.2	*	12.5	8.1	*	12.5	10.5	*
Open Reduction of Hip Fracture	38	5.3	5.5	*	5.3	10.6	*	5.3	13.9	*
Prostatectomy	124	2.4	1.1	1.4	5.6	2.5	2.2	5.6	4.1	1.9
Cholecystectomy	59	3.4	3.0	2.5	5.1	5.6	3.0	6.8	7.4	3.8
Hysterectomy	25	0.0	0.5	*	0.0	1.1	*	0.0	1.6	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,316	9.0	9.2	0.9	13.9	14.0	0.8	18.0	17.8	0.8
CONDITIONS:										
Acute Myocardial Infarction	82	26.8	29.3	5.4	35.4	32.5	5.9	35.4	35.8	5.4
Congestive Heart Failure	129	20.2	17.6	4.3	26.4	26.3	3.9	33.3	33.2	4.5
Pneumonia/Influenza	75	16.0	16.7	4.3	22.7	22.7	6.0	25.3	27.3	5.5
Chronic Obstructive Pulmonary Disease	26	3.8	8.4	*	7.7	14.1	*	11.5	18.7	*
Transient Cerebral Ischemia	34	0.0	2.4	*	2.9	5.2	*	8.8	7.9	*
Stroke	76	25.0	25.0	6.3	30.3	31.2	5.6	38.2	35.9	5.8
Hip Fracture	84	6.0	6.2	2.7	8.3	11.4	4.3	14.3	14.9	4.0
Sepsis	17	11.8	25.4	*	17.6	35.4	*	35.3	42.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	22	18.2	5.2	*	18.2	8.4	*	22.7	10.9	*
Carotid Endarterectomy	9	11.1	1.6	*	11.1	2.9	*	11.1	4.1	*
Hip Replacement/Reconstruction	37	5.4	4.5	*	8.1	8.9	*	16.2	12.0	*
Open Reduction of Hip Fracture	45	4.4	5.5	*	6.7	10.4	*	8.9	13.7	*
Prostatectomy	109	2.8	1.2	1.3	3.7	2.9	1.8	7.3	4.7	2.4
Cholecystectomy	51	0.0	3.7	*	2.0	7.0	*	2.0	9.4	*
Hysterectomy	27	3.7	0.6	*	3.7	1.2	*	3.7	1.7	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

CAMERON MEMORIAL COMMUNITY HOSPITAL

416 East and 909 West Maumee Street
Angola, IN 46703

Medicare Provider Number: 150039

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	373	9.7	9.1	1.6	13.9	13.7	2.1	19.0	17.4	2.7
CONDITIONS:										
Acute Myocardial Infarction	11	45.5	26.5	*	45.5	30.4	*	45.5	34.3	*
Congestive Heart Failure	30	13.3	12.9	*	16.7	20.3	*	26.7	26.6	*
Pneumonia/Influenza	26	15.4	16.9	*	19.2	23.5	*	26.9	28.9	*
Chronic Obstructive Pulmonary Disease	4	25.0	8.9	*	25.0	18.1	*	25.0	26.0	*
Transient Cerebral Ischemia	5	0.0	2.2	*	0.0	5.1	*	0.0	8.4	*
Stroke	15	13.3	17.0	*	13.3	22.7	*	20.0	27.1	*
Hip Fracture	5	0.0	5.8	*	20.0	11.6	*	20.0	15.9	*
Sepsis	8	12.5	25.0	*	12.5	31.7	*	37.5	38.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	5.2	*	0.0	11.4	*	0.0	16.4	*
Open Reduction of Hip Fracture	1	0.0	4.6	*	100.0	9.7	*	100.0	13.6	*
Prostatectomy	12	0.0	0.9	*	0.0	2.2	*	0.0	3.8	*
Cholecystectomy	11	0.0	1.9	*	0.0	3.5	*	9.1	4.8	*
Hysterectomy	5	0.0	0.4	*	0.0	0.6	*	0.0	0.9	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	61
Occupancy Rate	48
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	14
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	0
Registered Nurses	43
Licensed Practical Nurses	18

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

CAMERON MEMORIAL COMMUNITY HOSPITAL

Medicare Provider Number: 150039

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	389	14.1	9.4	2.1	17.7	14.1	2.1	21.9	17.9	2.3
CONDITIONS:										
Acute Myocardial Infarction	12	33.3	19.1	*	33.3	22.2	*	33.3	25.6	*
Congestive Heart Failure	34	26.5	14.6	*	26.5	22.6	*	41.2	29.3	*
Pneumonia/Influenza	26	15.4	15.6	*	19.2	21.2	*	23.1	25.9	*
Chronic Obstructive Pulmonary Disease	11	18.2	8.1	*	27.3	14.1	*	36.4	20.0	*
Transient Cerebral Ischemia	3	0.0	2.0	*	33.3	4.4	*	33.3	7.0	*
Stroke	16	31.3	17.5	*	31.3	23.1	*	31.3	27.4	*
Hip Fracture	7	0.0	5.7	*	0.0	10.7	*	14.3	14.1	*
Sepsis	11	18.2	25.8	*	27.3	34.1	*	45.5	40.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	13.3	*	0.0	23.9	*	0.0	31.4	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	3.6	*	0.0	7.3	*	100.0	9.9	*
Open Reduction of Hip Fracture	4	0.0	5.9	*	0.0	11.3	*	0.0	15.0	*
Prostatectomy	1	0.0	0.8	*	0.0	1.9	*	0.0	3.0	*
Cholecystectomy	14	7.1	3.0	*	7.1	6.0	*	14.3	8.3	*
Hysterectomy	2	0.0	0.4	*	0.0	0.7	*	0.0	0.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	422	10.9	7.6	1.9	14.5	11.5	2.0	16.8	14.9	1.9
CONDITIONS:										
Acute Myocardial Infarction	16	31.3	20.7	*	31.3	23.3	*	31.3	26.4	*
Congestive Heart Failure	26	30.8	13.9	*	42.3	21.5	*	46.2	28.1	*
Pneumonia/Influenza	19	15.8	13.6	*	26.3	18.3	*	26.3	22.5	*
Chronic Obstructive Pulmonary Disease	9	22.2	11.3	*	33.3	18.1	*	33.3	23.7	*
Transient Cerebral Ischemia	4	0.0	1.9	*	0.0	4.0	*	0.0	6.3	*
Stroke	6	0.0	18.1	*	0.0	23.1	*	16.7	27.5	*
Hip Fracture	13	7.7	5.3	*	15.4	9.8	*	23.1	13.1	*
Sepsis	4	75.0	26.1	*	75.0	33.0	*	75.0	38.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	2.0	*	0.0	4.0	*	0.0	6.0	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	6	0.0	4.4	*	0.0	8.7	*	16.7	11.9	*
Open Reduction of Hip Fracture	6	0.0	4.6	*	16.7	8.9	*	16.7	11.9	*
Prostatectomy	12	0.0	1.1	*	0.0	2.7	*	0.0	4.6	*
Cholecystectomy	18	0.0	2.2	*	0.0	4.0	*	0.0	5.2	*
Hysterectomy	4	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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MEDICARE PROVIDER # 15-0039
17.2

CMC
Hospital
Cameron Memorial Community Hospital
416 East Maumee St.
Angola, Indiana 46703
(219) 665-2141

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

CAMERON MEMORIAL COMMUNITY HOSPITAL COMMENTS ON HCFA MORTALITY RATES

To determine the significance of any difference between Cameron Memorial Community Hospital's mortality rate and the predicted rate, the HCFA administrator recommends that we calculate a "range of expected mortality" and observe the hospital rate relative to that range. This is done using the predicted mortality rate for the hospital and the standard deviation figures provided by HCFA.

The results for Cameron Hospital in 1989 are as follows:

	At 30 Days	At 90 Days	At 180 Days
Range of expected mortality	(5.9 to 12.3)	(9.5 to 17.9)	(12.0 to 22.8)
CMCH observed rate	9.7	13.9	19.0

Cameron's observed mortality rate falls well within the range for each observation period in the general category of "all causes."

The more specific categories, divided up by conditions and/or procedures, are not large enough in Cameron Hospital's case to constitute a statistically valid sample, according to HCFA. As stated in the information provided by HCFA, "The precision and interpretability of our estimates (of the predicted mortality rates) are questionable when there are no deaths or 50 or fewer cases in a particular category being analyzed." Cameron Hospital had far less than 50 cases in each of the seventeen specific categories being analyzed. Therefore, comparison with a valid "range of expected mortality" is impossible in these categories.

CAYLOR-NICKEL MEDICAL CENTER

One Caylor-Nickel Square
Bluffton, IN 46714

Medicare Provider Number: 150075

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	964	6.3	9.0	1.1	8.3	13.5	1.3	11.3	17.0	1.3
CONDITIONS:										
Acute Myocardial Infarction	32	21.9	30.5	*	21.9	33.5	*	28.1	37.1	*
Congestive Heart Failure	49	14.3	16.5	*	22.4	25.4	*	26.5	32.6	*
Pneumonia/Influenza	36	5.6	16.9	*	11.1	22.7	*	16.7	27.3	*
Chronic Obstructive Pulmonary Disease	27	0.0	5.0	*	0.0	9.3	*	7.4	13.3	*
Transient Cerebral Ischemia	4	0.0	1.5	*	0.0	3.2	*	0.0	5.1	*
Stroke	46	13.0	20.2	*	13.0	26.7	*	13.0	31.2	*
Hip Fracture	25	4.0	6.3	*	4.0	11.6	*	4.0	15.4	*
Sepsis	25	28.0	26.6	*	32.0	33.6	*	44.0	39.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	5	0.0	2.1	*	0.0	4.9	*	0.0	8.2	*
Carotid Endarterectomy	2	0.0	1.1	*	0.0	2.0	*	0.0	3.1	*
Hip Replacement/Reconstruction	33	3.0	2.2	*	3.0	4.2	*	6.1	5.8	*
Open Reduction of Hip Fracture	10	0.0	5.3	*	0.0	9.9	*	0.0	13.0	*
Prostatectomy	19	0.0	0.9	*	0.0	2.2	*	0.0	3.8	*
Cholecystectomy	32	3.1	2.4	*	3.1	4.5	*	3.1	6.1	*
Hysterectomy	9	0.0	0.7	*	0.0	1.4	*	0.0	2.0	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	148
Occupancy Rate	43
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	54
Percent of Physicians Board Certified Specialists	69
Medical Residents/Interns	0
Registered Nurses	65
Licensed Practical Nurses	23

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

CAYLOR-NICKEL MEDICAL CENTER

Medicare Provider Number: 150075

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,075	7.2	8.7	1.6	12.0	13.0	1.9	14.8	16.4	2.3
CONDITIONS:										
Acute Myocardial Infarction	36	22.2	33.0	*	30.6	36.4	*	38.9	40.0	*
Congestive Heart Failure	51	13.7	15.3	5.3	25.5	22.9	6.3	33.3	29.3	8.3
Pneumonia/Influenza	47	10.6	15.7	*	19.1	21.4	*	21.3	25.9	*
Chronic Obstructive Pulmonary Disease	31	0.0	4.5	*	0.0	8.9	*	0.0	13.0	*
Transient Cerebral Ischemia	17	5.9	2.5	*	5.9	5.5	*	5.9	8.6	*
Stroke	31	22.6	25.2	*	32.3	32.2	*	32.3	37.2	*
Hip Fracture	19	5.3	5.2	*	5.3	9.4	*	10.5	12.2	*
Sepsis	15	26.7	35.5	*	40.0	43.2	*	40.0	49.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	14.3	9.5	*	14.3	13.8	*	14.3	17.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	26	0.0	1.9	*	0.0	3.6	*	0.0	4.8	*
Open Reduction of Hip Fracture	8	12.5	5.1	*	12.5	9.5	*	25.0	12.6	*
Prostatectomy	28	0.0	0.7	*	3.6	1.7	*	3.6	2.7	*
Cholecystectomy	17	0.0	3.1	*	5.9	5.8	*	5.9	7.9	*
Hysterectomy	11	0.0	0.5	*	0.0	1.1	*	0.0	1.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,134	7.6	8.1	0.9	12.1	12.4	1.1	15.5	15.8	1.1
CONDITIONS:										
Acute Myocardial Infarction	22	27.3	31.2	*	40.9	34.6	*	50.0	38.1	*
Congestive Heart Failure	61	13.1	16.3	5.9	23.0	24.0	5.9	24.6	30.6	8.9
Pneumonia/Influenza	49	16.3	15.5	*	20.4	20.8	*	28.6	25.3	*
Chronic Obstructive Pulmonary Disease	21	0.0	4.0	*	4.8	7.5	*	19.0	10.6	*
Transient Cerebral Ischemia	11	0.0	1.6	*	9.1	3.5	*	9.1	5.5	*
Stroke	39	25.6	24.2	*	33.3	30.9	*	35.9	35.6	*
Hip Fracture	31	12.9	5.5	*	12.9	10.4	*	19.4	13.9	*
Sepsis	18	44.4	30.2	*	50.0	38.2	*	50.0	44.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	6	16.7	1.3	*	16.7	2.6	*	16.7	3.9	*
Carotid Endarterectomy	1	0.0	1.5	*	0.0	2.5	*	0.0	3.4	*
Hip Replacement/Reconstruction	37	2.7	1.6	*	2.7	3.0	*	2.7	4.1	*
Open Reduction of Hip Fracture	18	16.7	5.2	*	16.7	10.5	*	27.8	14.3	*
Prostatectomy	20	0.0	0.6	*	0.0	1.4	*	0.0	2.3	*
Cholecystectomy	28	7.1	2.5	*	10.7	4.2	*	10.7	5.3	*
Hysterectomy	6	0.0	1.0	*	0.0	1.5	*	0.0	1.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

CLARK COUNTY MEMORIAL HOSPITAL

1220 Missouri Avenue
Jeffersonville, IN 47130

Medicare Provider Number: 150009

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,713	10.7	9.4	0.9	16.0	14.1	1.3	20.1	17.8	1.4
CONDITIONS:										
Acute Myocardial Infarction	53	32.1	27.8	8.8	37.7	30.9	10.5	43.4	34.3	12.0
Congestive Heart Failure	86	8.1	13.2	5.2	15.1	21.3	6.5	23.3	28.1	6.0
Pneumonia/Influenza	163	17.8	16.0	3.0	29.4	22.4	4.6	35.6	27.4	4.9
Chronic Obstructive Pulmonary Disease	1	0.0	20.8	*	0.0	29.8	*	0.0	36.3	*
Transient Cerebral Ischemia	37	2.7	1.6	*	2.7	3.4	*	5.4	5.4	*
Stroke	61	24.6	20.2	10.8	32.8	27.0	10.4	36.1	31.7	8.2
Hip Fracture	57	1.8	5.9	5.4	10.5	10.9	6.4	14.0	14.4	4.7
Sepsis	23	26.1	25.9	*	26.1	32.8	*	34.8	39.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	8	0.0	2.0	*	0.0	3.9	*	0.0	5.9	*
Carotid Endarterectomy	4	0.0	1.3	*	0.0	2.4	*	0.0	3.6	*
Hip Replacement/Reconstruction	40	2.5	3.9	*	7.5	7.7	*	7.5	10.8	*
Open Reduction of Hip Fracture	30	0.0	5.5	*	6.7	10.3	*	13.3	13.5	*
Prostatectomy	43	2.3	1.0	*	4.7	2.6	*	7.0	4.3	*
Cholecystectomy	38	7.9	2.5	*	10.5	4.6	*	13.2	5.9	*
Hysterectomy	11	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	238
Occupancy Rate	70
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	118
Percent of Physicians Board Certified Specialists	51
Medical Residents/Interns	0
Registered Nurses	167
Licensed Practical Nurses	63

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	Yes
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

CLARK COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 150009

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	1,633	11.9	9.9	1.0	17.1	15.0	1.1	22.0	18.8	1.4
CONDITIONS:										
Acute Myocardial Infarction	48	45.8	30.2	*	47.9	33.1	*	50.0	36.4	*
Congestive Heart Failure	89	19.1	14.2	4.4	30.3	21.8	6.2	41.6	28.2	8.2
Pneumonia/Influenza	126	13.5	16.3	4.3	22.2	22.5	4.9	25.4	27.4	4.7
Chronic Obstructive Pulmonary Disease	3	0.0	2.9	*	0.0	5.8	*	0.0	8.3	*
Transient Cerebral Ischemia	34	0.0	1.5	*	0.0	3.3	*	0.0	5.0	*
Stroke	53	30.2	18.9	12.7	32.1	25.3	13.8	39.6	29.9	13.9
Hip Fracture	37	8.1	6.1	*	10.8	11.2	*	10.8	14.5	*
Sepsis	36	38.9	27.9	*	41.7	35.2	*	44.4	40.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	13	23.1	5.2	*	23.1	7.6	*	23.1	10.0	*
Carotid Endarterectomy	11	0.0	1.7	*	0.0	3.2	*	0.0	4.6	*
Hip Replacement/Reconstruction	23	4.3	2.6	*	4.3	5.1	*	4.3	7.1	*
Open Reduction of Hip Fracture	25	8.0	5.9	*	12.0	11.2	*	12.0	14.6	*
Prostatectomy	38	0.0	1.3	*	5.3	2.7	*	10.5	4.1	*
Cholecystectomy	36	8.3	2.4	*	13.9	4.6	*	16.7	6.2	*
Hysterectomy	11	9.1	0.5	*	9.1	0.9	*	9.1	1.2	*

*The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	1,582	11.7	9.4	1.1	16.4	14.3	1.2	19.9	18.1	1.1
CONDITIONS:										
Acute Myocardial Infarction	50	32.0	24.8	*	34.0	27.9	*	40.0	31.2	*
Congestive Heart Failure	98	20.4	15.7	5.4	37.8	24.7	6.8	39.8	32.0	6.2
Pneumonia/Influenza	145	24.1	15.2	4.4	31.7	21.1	5.4	37.2	25.7	5.6
Chronic Obstructive Pulmonary Disease	15	26.7	6.6	*	26.7	11.0	*	26.7	14.6	*
Transient Cerebral Ischemia	27	0.0	1.6	*	3.7	3.3	*	3.7	5.1	*
Stroke	54	27.8	19.5	9.3	33.3	25.7	8.8	35.2	30.3	7.5
Hip Fracture	66	1.5	5.8	4.6	4.5	10.7	6.4	7.6	14.0	6.8
Sepsis	9	33.3	27.2	*	44.4	35.1	*	55.6	41.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	16	12.5	3.0	*	12.5	6.0	*	12.5	9.0	*
Carotid Endarterectomy	7	0.0	1.8	*	0.0	3.4	*	0.0	5.0	*
Hip Replacement/Reconstruction	48	0.0	4.1	*	0.0	7.9	*	4.2	10.5	*
Open Reduction of Hip Fracture	26	3.8	4.7	*	11.5	9.2	*	11.5	12.2	*
Prostatectomy	39	0.0	1.3	*	2.6	3.0	*	5.1	4.8	*
Cholecystectomy	26	0.0	2.3	*	0.0	4.2	*	3.8	5.5	*
Hysterectomy	12	0.0	2.1	*	0.0	3.9	*	0.0	5.9	*

*The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

CLAY COUNTY HOSPITAL

1206 East National Avenue
Brazil, IN 47834

Medicare Provider Number: 150050

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	583	13.2	9.3	2.0	18.4	14.0	2.3	21.3	17.8	2.2
CONDITIONS:										
Acute Myocardial Infarction	24	25.0	22.4	*	29.2	25.6	*	33.3	29.1	*
Congestive Heart Failure	25	12.0	11.2	*	28.0	17.3	*	32.0	22.8	*
Pneumonia/Influenza	29	13.8	14.0	*	24.1	19.4	*	24.1	23.8	*
Chronic Obstructive Pulmonary Disease	21	4.8	6.4	*	9.5	11.8	*	14.3	16.7	*
Transient Cerebral Ischemia	5	0.0	1.2	*	0.0	2.7	*	0.0	4.4	*
Stroke	32	46.9	19.1	*	53.1	25.6	*	56.3	30.4	*
Hip Fracture	23	0.0	4.6	*	0.0	9.0	*	0.0	12.3	*
Sepsis	5	0.0	32.7	*	0.0	42.1	*	0.0	50.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	14.2	*	0.0	17.1	*	0.0	18.6	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	13	0.0	4.6	*	0.0	9.2	*	0.0	12.6	*
Open Reduction of Hip Fracture	10	0.0	3.8	*	0.0	7.6	*	0.0	10.6	*
Prostatectomy	13	0.0	0.8	*	0.0	1.9	*	0.0	3.2	*
Cholecystectomy	10	0.0	4.1	*	0.0	7.1	*	10.0	8.5	*
Hysterectomy	4	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	78
Occupancy Rate	32
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	(Not Available)
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	(Not Available)
Registered Nurses	(Not Available)
Licensed Practical Nurses	(Not Available)

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

CLAY COUNTY HOSPITAL

Medicare Provider Number: 150050

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	583	12.3	9.8	1.6	17.8	14.5	2.0	20.9	18.2	2.2
CONDITIONS:										
Acute Myocardial Infarction	21	38.1	33.2	*	42.9	37.8	*	42.9	42.1	*
Congestive Heart Failure	24	29.2	16.1	*	41.7	24.5	*	45.8	31.3	*
Pneumonia/Influenza	32	31.3	15.4	*	34.4	21.2	*	34.4	25.8	*
Chronic Obstructive Pulmonary Disease	13	15.4	7.7	*	15.4	12.5	*	23.1	17.1	*
Transient Cerebral Ischemia	9	0.0	1.7	*	22.2	3.9	*	22.2	6.2	*
Stroke	21	19.0	17.7	*	23.8	23.8	*	28.6	28.4	*
Hip Fracture	30	13.3	5.7	*	13.3	10.6	*	13.3	13.9	*
Sepsis	8	37.5	26.9	*	37.5	34.3	*	37.5	40.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	2.6	*	100.0	4.7	*	100.0	6.9	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	8	0.0	5.3	*	0.0	10.2	*	0.0	13.3	*
Open Reduction of Hip Fracture	17	17.6	5.5	*	17.6	10.7	*	17.6	14.4	*
Prostatectomy	17	0.0	1.8	*	5.9	4.5	*	11.8	7.4	*
Cholecystectomy	11	0.0	1.4	*	0.0	2.3	*	0.0	3.0	*
Hysterectomy	4	0.0	1.5	*	0.0	2.7	*	0.0	3.8	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	585	14.2	10.5	1.7	20.0	15.3	2.2	23.9	19.1	2.3
CONDITIONS:										
Acute Myocardial Infarction	29	31.0	32.0	*	41.4	35.5	*	48.3	39.3	*
Congestive Heart Failure	25	20.0	15.9	*	32.0	24.3	*	40.0	31.2	*
Pneumonia/Influenza	26	19.2	17.0	*	26.9	23.2	*	34.6	27.9	*
Chronic Obstructive Pulmonary Disease	9	11.1	8.0	*	11.1	15.1	*	22.2	20.9	*
Transient Cerebral Ischemia	14	0.0	1.6	*	0.0	3.5	*	14.3	5.6	*
Stroke	38	31.6	18.3	*	44.7	24.3	*	47.4	28.9	*
Hip Fracture	18	11.1	5.4	*	16.7	10.3	*	16.7	13.8	*
Sepsis	10	10.0	28.2	*	20.0	35.9	*	20.0	41.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	100.0	16.5	*	100.0	23.1	*	100.0	25.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	8	25.0	5.6	*	37.5	10.6	*	37.5	14.2	*
Open Reduction of Hip Fracture	8	0.0	4.4	*	0.0	9.1	*	0.0	12.7	*
Prostatectomy	15	6.7	1.0	*	6.7	2.2	*	6.7	3.6	*
Cholecystectomy	21	4.8	1.9	*	4.8	3.3	*	4.8	4.3	*
Hysterectomy	0									

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

CLINTON COUNTY HOSPITAL

1300 S Jackson St
Frankfort, IN 46041

Medicare Provider Number: 150043

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	534	10.7	7.1	1.7	14.6	10.9	2.0	18.0	13.9	2.2
CONDITIONS:										
Acute Myocardial Infarction	23	21.7	19.6	*	21.7	22.3	*	26.1	24.9	*
Congestive Heart Failure	44	18.2	12.0	*	25.0	19.2	*	25.0	25.2	*
Pneumonia/Influenza	37	18.9	12.7	*	18.9	18.2	*	27.0	22.3	*
Chronic Obstructive Pulmonary Disease	1	100.0	13.2	*	100.0	24.5	*	100.0	34.4	*
Transient Cerebral Ischemia	7	0.0	1.8	*	0.0	3.9	*	0.0	6.2	*
Stroke	26	26.9	18.3	*	42.3	26.8	*	42.3	31.8	*
Hip Fracture	16	0.0	3.0	*	0.0	6.2	*	12.5	8.8	*
Sepsis	17	23.5	21.6	*	41.2	29.1	*	41.2	35.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	6	0.0	1.8	*	0.0	4.1	*	0.0	6.1	*
Open Reduction of Hip Fracture	9	0.0	3.2	*	0.0	6.8	*	22.2	9.6	*
Prostatectomy	22	0.0	0.5	*	0.0	1.2	*	0.0	2.1	*
Cholecystectomy	6	0.0	1.1	*	0.0	1.9	*	0.0	2.6	*
Hysterectomy	6	0.0	0.6	*	0.0	1.4	*	0.0	2.3	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	53
Occupancy Rate	40
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	12
Percent of Physicians Board Certified Specialists	75
Medical Residents/Interns	0
Registered Nurses	55
Licensed Practical Nurses	10

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

CLINTON COUNTY HOSPITAL

Medicare Provider Number: 150043

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	540	12.8	8.5	1.7	17.8	12.6	2.1	21.1	16.0	2.2
CONDITIONS:										
Acute Myocardial Infarction	27	37.0	24.1	*	44.4	26.8	*	44.4	29.8	*
Congestive Heart Failure	44	22.7	15.6	*	22.7	24.0	*	31.8	31.1	*
Pneumonia/Influenza	47	21.3	13.9	*	29.8	19.5	*	31.9	24.0	*
Chronic Obstructive Pulmonary Disease	8	25.0	6.8	*	37.5	13.6	*	37.5	19.8	*
Transient Cerebral Ischemia	13	0.0	1.5	*	0.0	3.1	*	7.7	4.8	*
Stroke	37	8.1	14.0	*	18.9	20.6	*	18.9	25.1	*
Hip Fracture	19	10.5	3.0	*	15.8	6.3	*	21.1	8.7	*
Sepsis	14	14.3	22.7	*	14.3	29.1	*	14.3	35.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	12	8.3	2.4	*	8.3	5.2	*	16.7	7.4	*
Open Reduction of Hip Fracture	8	12.5	2.9	*	25.0	6.2	*	25.0	8.8	*
Prostatectomy	5	0.0	0.6	*	0.0	1.4	*	0.0	2.4	*
Cholecystectomy	17	0.0	1.1	*	5.9	2.0	*	5.9	2.8	*
Hysterectomy	7	0.0	0.2	*	0.0	0.3	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	504	13.5	9.8	1.8	18.7	14.8	2.2	21.6	18.6	2.0
CONDITIONS:										
Acute Myocardial Infarction	14	42.9	29.9	*	42.9	33.3	*	42.9	36.7	*
Congestive Heart Failure	49	22.4	17.3	*	38.8	26.5	*	46.9	33.7	*
Pneumonia/Influenza	48	20.8	15.4	*	27.1	21.3	*	29.2	26.1	*
Chronic Obstructive Pulmonary Disease	7	14.3	7.7	*	14.3	15.6	*	28.6	22.1	*
Transient Cerebral Ischemia	14	0.0	2.1	*	0.0	4.6	*	0.0	7.4	*
Stroke	36	16.7	18.3	*	25.0	24.9	*	30.6	29.3	*
Hip Fracture	20	10.0	4.5	*	10.0	8.7	*	10.0	11.5	*
Sepsis	17	11.8	28.7	*	23.5	38.3	*	35.3	45.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	6	0.0	3.5	*	0.0	7.4	*	0.0	10.2	*
Open Reduction of Hip Fracture	12	8.3	4.4	*	8.3	8.8	*	8.3	11.8	*
Prostatectomy	9	0.0	0.7	*	0.0	1.5	*	0.0	2.5	*
Cholecystectomy	2	0.0	0.7	*	0.0	1.2	*	0.0	1.6	*
Hysterectomy	3	0.0	0.8	*	0.0	1.7	*	0.0	2.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

COMMUNITY HOSPITAL

901 MacArtur Boulevard
Munster, IN 46321

Medicare Provider Number: 150125

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,699	7.0	8.0	0.6	11.0	12.1	0.7	13.6	15.5	0.9
CONDITIONS:										
Acute Myocardial Infarction	74	25.7	26.0	5.1	28.4	28.6	5.4	28.4	31.6	6.7
Congestive Heart Failure	174	11.5	14.5	4.7	20.1	22.5	3.8	26.4	29.1	4.8
Pneumonia/Influenza	86	14.0	15.6	6.4	20.9	21.2	5.2	23.3	25.7	5.2
Chronic Obstructive Pulmonary Disease	33	9.1	9.0	*	12.1	15.6	*	24.2	21.3	*
Transient Cerebral Ischemia	80	1.2	2.0	2.2	7.5	4.7	3.8	11.2	7.5	5.8
Stroke	100	21.0	21.8	4.2	26.0	27.3	6.1	30.0	31.5	4.8
Hip Fracture	40	7.5	6.1	*	12.5	10.7	*	15.0	13.8	*
Sepsis	26	26.9	26.6	*	34.6	35.1	*	34.6	41.2	*
PROCEDURES:										
Angioplasty	86	7.0	3.0	3.1	7.0	3.9	3.3	7.0	4.9	3.7
Coronary Artery Bypass Graft	80	6.3	5.7	2.9	10.0	8.2	3.4	11.2	9.8	3.6
Initial Pacemaker Insertion	32	3.1	2.6	*	9.4	5.8	*	12.5	9.1	*
Carotid Endarterectomy	34	0.0	1.2	*	0.0	2.2	*	5.9	3.2	*
Hip Replacement/Reconstruction	23	0.0	3.0	*	4.3	5.3	*	8.7	6.9	*
Open Reduction of Hip Fracture	12	0.0	5.1	*	0.0	9.3	*	0.0	12.1	*
Prostatectomy	110	0.9	0.9	1.0	2.7	2.1	2.0	2.7	3.6	2.4
Cholecystectomy	66	4.5	3.3	2.8	6.1	6.0	3.1	6.1	7.8	3.9
Hysterectomy	31	0.0	0.9	*	3.2	1.9	*	3.2	2.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1990

Total Beds	292
Ownership/Control	Private, Non-Profit

STAFFING:

Medical Residents/Interns	0
Registered Nurses	390
Licensed Practical Nurses	15

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	Yes
Hospice	No
Intensive Care Unit	Yes
Organ Transplant	No
Rehabilitation	Yes
Shock Trauma	No

**** Not used in calculating hospital mortality rates.**

COMMUNITY HOSPITAL

Medicare Provider Number: 150125

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,613	7.2	8.7	0.7	11.3	12.8	0.9	13.7	16.2	1.0
CONDITIONS:										
Acute Myocardial Infarction	69	23.2	28.3	10.8	27.5	31.3	11.9	27.5	34.7	11.8
Congestive Heart Failure	161	12.4	16.3	3.7	24.2	24.5	3.4	33.5	31.3	3.9
Pneumonia/Influenza	103	15.5	17.8	6.7	18.4	23.6	7.4	23.3	28.3	8.5
Chronic Obstructive Pulmonary Disease	30	6.7	8.9	*	13.3	15.0	*	13.3	20.1	*
Transient Cerebral Ischemia	85	2.4	2.0	1.6	2.4	4.3	2.8	2.4	6.8	4.6
Stroke	83	13.3	22.4	7.2	20.5	28.2	7.7	25.3	32.7	6.7
Hip Fracture	39	7.7	6.6	*	10.3	11.9	*	17.9	15.3	*
Sepsis	31	16.1	29.0	*	29.0	36.4	*	29.0	42.4	*
PROCEDURE:										
Angioplasty	71	5.6	3.9	3.0	5.6	4.9	3.4	5.6	6.0	4.0
Coronary Artery Bypass Graft	61	11.5	5.6	4.4	14.8	7.4	5.8	14.8	8.5	6.3
Initial Pacemaker Insertion	21	0.0	4.2	*	4.8	6.9	*	4.8	9.3	*
Carotid Endarterectomy	18	0.0	1.7	*	0.0	3.2	*	0.0	4.8	*
Hip Replacement/Reconstruction	25	0.0	3.0	*	0.0	5.8	*	4.0	7.7	*
Open Reduction of Hip Fracture	10	10.0	4.9	*	20.0	9.6	*	30.0	13.0	*
Prostatectomy	85	0.0	0.9	1.4	2.4	2.0	2.5	2.4	3.2	2.7
Cholecystectomy	59	1.7	2.8	3.6	3.4	5.0	5.2	3.4	6.5	5.5
Hysterectomy	24	0.0	1.1	*	0.0	2.5	*	0.0	3.7	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,221	8.5	8.0	1.0	12.6	12.0	0.8	15.3	15.2	0.8
CONDITIONS:										
Acute Myocardial Infarction	66	28.8	28.4	6.1	37.9	31.4	6.6	39.4	35.0	6.5
Congestive Heart Failure	142	23.2	15.4	4.6	29.6	23.3	4.7	33.1	29.9	4.1
Pneumonia/Influenza	65	9.2	15.8	6.7	15.4	21.1	6.8	16.9	25.7	7.4
Chronic Obstructive Pulmonary Disease	26	7.7	12.8	*	15.4	20.2	*	19.2	25.8	*
Transient Cerebral Ischemia	73	0.0	2.0	*	0.0	4.2	*	0.0	6.7	*
Stroke	72	16.7	21.8	8.0	25.0	27.9	9.0	29.2	32.5	7.2
Hip Fracture	34	2.9	5.6	*	11.8	9.8	*	11.8	12.6	*
Sepsis	15	20.0	32.0	*	46.7	40.9	*	46.7	47.8	*
PROCEDURES:										
Angioplasty	24	8.3	4.5	*	12.5	5.8	*	12.5	7.2	*
Coronary Artery Bypass Graft	66	16.7	8.3	4.7	22.7	11.1	5.7	24.2	12.6	6.1
Initial Pacemaker Insertion	21	9.5	3.9	*	9.5	7.0	*	9.5	9.5	*
Carotid Endarterectomy	13	7.7	1.7	*	7.7	3.5	*	7.7	5.2	*
Hip Replacement/Reconstruction	28	0.0	4.1	*	3.6	7.8	*	7.1	10.3	*
Open Reduction of Hip Fracture	11	0.0	3.7	*	9.1	6.8	*	9.1	9.0	*
Prostatectomy	97	1.0	0.7	1.2	3.1	1.8	1.6	4.1	3.0	2.0
Cholecystectomy	54	5.6	2.2	4.5	7.4	4.1	4.6	7.4	5.6	4.0
Hysterectomy	24	0.0	0.4	*	4.2	0.8	*	4.2	1.1	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

COMMUNITY HOSPITAL ASSOCIATION INC

412 N Monroe St
Williamsport, IN 47993

Medicare Provider Number: 150103

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	217	9.7	9.0	2.0	15.7	13.7	2.8	19.8	17.7	2.9
CONDITIONS:										
Acute Myocardial Infarction	6	33.3	16.5	*	33.3	19.6	*	33.3	23.2	*
Congestive Heart Failure	25	12.0	16.1	*	28.0	25.4	*	44.0	33.0	*
Pneumonia/Influenza	20	5.0	14.3	*	10.0	19.8	*	10.0	24.5	*
Chronic Obstructive Pulmonary Disease	3	0.0	3.0	*	0.0	5.8	*	0.0	8.6	*
Transient Cerebral Ischemia	3	0.0	1.1	*	33.3	2.4	*	66.7	3.9	*
Stroke	8	12.5	14.1	*	25.0	19.1	*	37.5	23.1	*
Hip Fracture	5	0.0	3.9	*	0.0	7.0	*	0.0	9.3	*
Sepsis	4	25.0	44.8	*	25.0	52.5	*	25.0	59.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	0.0	4.3	*	0.0	7.8	*	0.0	10.2	*
Open Reduction of Hip Fracture	2	0.0	2.6	*	0.0	5.1	*	0.0	7.0	*
Prostatectomy	9	0.0	1.1	*	0.0	2.7	*	0.0	4.8	*
Cholecystectomy	2	0.0	7.8	*	0.0	12.4	*	0.0	14.0	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	35
Occupancy Rate	31
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	27
Percent of Physicians Board Certified Specialists	89
Medical Residents/Interns	0
Registered Nurses	15
Licensed Practical Nurses	4

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

COMMUNITY HOSPITAL ASSOCIATION INC

Medicare Provider Number: 150103

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	219	12.3	9.0	3.5	16.0	14.3	4.0	21.0	18.6	4.0
CONDITIONS:										
Acute Myocardial Infarction	1	100.0	33.5	*	100.0	39.9	*	100.0	45.2	*
Congestive Heart Failure	20	25.0	14.7	*	25.0	22.8	*	35.0	29.5	*
Pneumonia/Influenza	15	20.0	14.4	*	20.0	19.6	*	20.0	24.0	*
Chronic Obstructive Pulmonary Disease	5	20.0	7.1	*	20.0	12.4	*	20.0	17.7	*
Transient Cerebral Ischemia	4	0.0	3.6	*	0.0	8.7	*	0.0	13.9	*
Stroke	6	0.0	28.2	*	33.3	37.4	*	33.3	43.5	*
Hip Fracture	5	0.0	4.0	*	0.0	7.9	*	0.0	10.9	*
Sepsis	2	50.0	40.9	*	50.0	48.4	*	50.0	54.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	5.9	*	0.0	11.5	*	0.0	15.3	*
Open Reduction of Hip Fracture	2	0.0	3.7	*	0.0	8.1	*	0.0	11.6	*
Prostatectomy	11	0.0	0.8	*	0.0	2.0	*	0.0	3.2	*
Cholecystectomy	4	0.0	2.3	*	25.0	4.0	*	25.0	5.3	*
Hysterectomy	0									

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	194	12.9	8.6	2.4	16.5	13.2	2.6	19.6	17.2	2.8
CONDITIONS:										
Acute Myocardial Infarction	7	28.6	29.0	*	42.9	34.7	*	42.9	39.5	*
Congestive Heart Failure	15	20.0	14.6	*	26.7	22.2	*	33.3	28.8	*
Pneumonia/Influenza	21	23.8	13.8	*	28.6	18.8	*	28.6	23.2	*
Chronic Obstructive Pulmonary Disease	3	0.0	6.3	*	0.0	11.4	*	0.0	15.7	*
Transient Cerebral Ischemia	3	0.0	1.1	*	0.0	2.2	*	0.0	3.5	*
Stroke	4	25.0	21.4	*	25.0	28.0	*	25.0	33.1	*
Hip Fracture	4	0.0	2.7	*	0.0	5.4	*	0.0	7.4	*
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	2.4	*	0.0	4.8	*	0.0	6.6	*
Open Reduction of Hip Fracture	2	0.0	2.5	*	0.0	5.1	*	0.0	7.1	*
Prostatectomy	6	0.0	1.2	*	0.0	2.6	*	0.0	4.1	*
Cholecystectomy	3	0.0	1.1	*	0.0	2.0	*	0.0	2.7	*
Hysterectomy	0									

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

COMMUNITY HOSPITAL INDIANAPOLIS

1500 Ritter Ave
Indianapolis, IN 46219

Medicare Provider Number: 150074

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	5,447	9.4	8.5	0.6	13.9	13.0	0.6	17.5	16.6	0.7
CONDITIONS:										
Acute Myocardial Infarction	178	23.0	24.5	3.3	28.7	27.5	3.7	30.3	30.7	3.7
Congestive Heart Failure	237	18.1	14.1	3.1	28.3	22.2	4.1	32.9	29.0	3.5
Pneumonia/Influenza	223	13.9	15.6	4.8	18.8	21.6	4.4	25.6	26.5	3.5
Chronic Obstructive Pulmonary Disease	62	6.5	7.1	4.4	8.1	13.0	6.2	8.1	18.0	8.9
Transient Cerebral Ischemia	64	1.6	1.8	1.7	4.7	4.0	2.6	6.3	6.4	3.2
Stroke	193	19.7	19.8	2.9	25.4	26.1	3.4	30.1	30.6	3.4
Hip Fracture	182	6.6	5.2	2.7	11.5	9.7	3.4	14.8	12.9	3.8
Sepsis	44	40.9	29.1	*	45.5	37.8	*	54.5	44.5	*
PROCEDURES:										
Angioplasty	65	7.7	3.4	2.9	9.2	4.3	3.3	9.2	5.4	3.7
Coronary Artery Bypass Graft	74	5.4	5.4	2.6	8.1	7.3	3.2	10.8	8.6	4.5
Initial Pacemaker Insertion	30	3.3	2.5	*	6.7	5.1	*	13.3	7.5	*
Carotid Endarterectomy	16	0.0	1.8	*	6.3	3.8	*	6.3	6.0	*
Hip Replacement/Reconstruction	129	4.7	3.1	2.3	7.0	5.9	2.4	10.1	8.0	3.9
Open Reduction of Hip Fracture	103	6.8	4.5	4.2	13.6	8.8	4.8	14.6	11.9	4.1
Prostatectomy	106	1.9	1.1	1.4	1.9	2.5	1.7	1.9	4.0	2.6
Cholecystectomy	148	3.4	2.2	1.4	4.7	3.8	1.6	4.7	4.9	1.8
Hysterectomy	38	0.0	0.6	*	0.0	1.4	*	0.0	2.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	816
Occupancy Rate	82
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	454
Percent of Physicians Board Certified Specialists	68
Medical Residents/Interns	22
Registered Nurses	687
Licensed Practical Nurses	108

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	Yes
Other Intensive Care	Yes
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

COMMUNITY HOSPITAL INDIANAPOLIS

Medicare Provider Number: 150074

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	5,280	9.6	8.7	0.6	14.5	13.3	0.7	17.7	16.9	0.6
CONDITIONS:										
Acute Myocardial Infarction	140	30.7	26.1	4.5	35.7	28.9	5.0	37.9	32.1	4.8
Congestive Heart Failure	233	13.3	14.5	2.7	23.2	22.5	2.8	27.9	29.1	3.2
Pneumonia/Influenza	205	24.9	16.4	3.8	30.7	22.8	3.9	33.2	27.6	3.6
Chronic Obstructive Pulmonary Disease	60	5.0	6.4	4.0	13.3	11.7	4.9	16.7	16.3	4.8
Transient Cerebral Ischemia	71	0.0	1.8	2.9	4.2	3.8	3.0	7.0	5.9	4.4
Stroke	204	20.1	20.4	2.8	25.0	27.1	3.6	30.4	31.8	3.5
Hip Fracture	191	6.3	5.7	2.4	12.0	10.6	2.9	15.2	13.9	3.4
Sepsis	50	28.0	29.5	*	38.0	36.9	*	44.0	42.6	*
PROCEDURES:										
Angioplasty	36	5.6	5.2	*	5.6	6.2	*	5.6	7.2	*
Coronary Artery Bypass Graft	85	3.5	5.8	2.8	8.2	7.7	3.0	9.4	9.0	3.1
Initial Pacemaker Insertion	26	0.0	6.6	*	3.8	10.3	*	3.8	13.7	*
Carotid Endarterectomy	19	0.0	1.7	*	0.0	3.2	*	0.0	4.6	*
Hip Replacement/Reconstruction	123	4.1	3.3	2.2	8.1	6.4	3.0	10.6	8.5	4.2
Open Reduction of Hip Fracture	112	7.1	5.2	4.2	14.3	10.1	5.7	17.0	13.5	5.9
Prostatectomy	109	1.8	0.8	1.1	1.8	2.0	1.4	2.8	3.3	1.8
Cholecystectomy	118	1.7	3.1	2.5	4.2	5.8	4.0	5.1	7.7	4.2
Hysterectomy	35	2.9	1.0	*	2.9	2.1	*	5.7	3.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	5,182	10.0	8.1	0.7	14.5	12.5	0.7	17.9	16.0	0.7
CONDITIONS:										
Acute Myocardial Infarction	164	29.3	25.8	4.6	33.5	29.0	5.7	37.2	32.0	6.8
Congestive Heart Failure	224	20.5	15.2	3.7	29.5	23.4	4.8	36.2	30.3	4.4
Pneumonia/Influenza	191	15.2	16.6	2.9	22.5	22.9	3.8	28.8	27.8	3.3
Chronic Obstructive Pulmonary Disease	84	21.4	8.9	5.8	31.0	14.8	5.7	33.3	19.5	6.1
Transient Cerebral Ischemia	63	3.2	1.9	3.1	6.3	4.2	4.7	7.9	6.6	5.6
Stroke	199	22.6	20.3	4.0	28.6	27.0	4.3	31.7	31.4	3.4
Hip Fracture	132	9.8	5.8	4.5	14.4	10.8	5.9	18.2	14.1	5.7
Sepsis	32	37.5	32.6	*	43.8	41.4	*	46.9	48.4	*
PROCEDURES:										
Angioplasty	29	0.0	4.3	*	0.0	5.2	*	0.0	6.2	*
Coronary Artery Bypass Graft	84	11.9	7.0	4.0	16.7	9.5	5.1	17.9	10.8	5.4
Initial Pacemaker Insertion	24	0.0	2.1	*	0.0	4.2	*	0.0	6.2	*
Carotid Endarterectomy	11	0.0	1.5	*	9.1	2.7	*	9.1	3.8	*
Hip Replacement/Reconstruction	94	5.3	3.3	2.5	8.5	6.2	3.8	10.6	8.2	4.4
Open Reduction of Hip Fracture	73	8.2	5.1	4.9	13.7	10.0	7.0	17.8	13.4	7.4
Prostatectomy	102	1.0	1.0	1.2	1.0	2.4	2.1	2.0	3.9	3.3
Cholecystectomy	126	0.8	2.8	2.5	6.3	5.1	2.3	9.5	6.7	3.2
Hysterectomy	31	0.0	0.5	*	0.0	0.9	*	0.0	1.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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31.2

150074

January 10, 1991

Community Hospitals Indianapolis

Community Hospital Indianapolis

16th Street and Ritter Avenue
P.O. Box 19805
Indianapolis, Indiana 46219-0805
Telephone (317) 353-1411

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

RE: MEDICARE HOSPITAL MORTALITY INFORMATION

Dear Mrs. Kappert:

Community Hospitals Indianapolis is a not-for-profit, integrated health care network which serves as a leader in providing compassionate, quality, cost-effective health care services to help the people of greater Indianapolis achieve and maintain optimal health. We will thoroughly review the HCFA Medicare Hospital Mortality Information for October 1, 1988 through September 30, 1989. Relative to any areas where the observed mortality rate may exceed the predicted mortality rate, further study will be attempted.

In review of the hospital characteristics portion of the data, we would like for the following corrections to be made:

a. Total Beds (#)..............718
b. Occupancy Rate (%).......... 72%

Community Hospitals Indianapolis and Community Hospital South support HCFA's continued efforts to refine the methodology for the adjustment of mortality rates and other changes which have resulted in an improved analytic model. We feel this is of utmost importance in order for this information to benefit and assist hospitals in interpreting mortality information.

Within the Community Hospital System, patient mortality is reviewed on an ongoing basis as part of the Hospital's Medical Staff Quality Assurance Programs. If concerns are identified during this process, appropriate interventions are taken at that time.

Community Hospitals Indianapolis and Community Hospital South wish to stress that it is of utmost importance that the public understand there are numerous conditions and circumstances which contribute to patient mortality which are in no way related to poor quality care, and that mortality rates are but one of many outcome indicators which hospitals use to document and understand variation and it's relationship to quality.

Yours truly,

William E. Corley

COMMUNITY HOSPITAL OF ANDERSON

1515 N Madison Av
Anderson, IN 46012

Medicare Provider Number: 150113

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,377	9.4	8.4	1.3	13.4	12.9	1.1	16.5	16.4	1.0
CONDITIONS:										
Acute Myocardial Infarction	27	25.9	27.8	*	29.6	30.8	*	37.0	34.1	*
Congestive Heart Failure	100	13.0	14.1	3.8	28.0	22.0	6.0	31.0	28.6	6.1
Pneumonia/Influenza	67	13.4	17.2	8.7	17.9	23.2	9.7	22.4	28.1	8.8
Chronic Obstructive Pulmonary Disease	24	8.3	6.3	*	16.7	11.3	*	20.8	15.7	*
Transient Cerebral Ischemia	35	0.0	1.8	*	0.0	3.8	*	0.0	6.1	*
Stroke	49	14.3	16.1	*	18.4	23.1	*	20.4	27.3	*
Hip Fracture	38	10.5	7.7	*	10.5	13.1	*	13.2	16.3	*
Sepsis	9	66.7	30.5	*	66.7	39.7	*	66.7	47.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	5	20.0	2.2	*	20.0	4.5	*	20.0	6.8	*
Carotid Endarterectomy	4	0.0	1.0	*	0.0	1.7	*	0.0	2.5	*
Hip Replacement/Reconstruction	31	6.5	4.9	*	6.5	8.6	*	6.5	11.1	*
Open Reduction of Hip Fracture	12	0.0	7.8	*	0.0	13.7	*	8.3	17.2	*
Prostatectomy	64	0.0	0.7	*	0.0	1.6	*	0.0	2.8	*
Cholecystectomy	22	4.5	2.1	*	4.5	3.9	*	4.5	5.3	*
Hysterectomy	12	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	207
Occupancy Rate	53
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	85
Percent of Physicians Board Certified Specialists	68
Medical Residents/Interns	0
Registered Nurses	142
Licensed Practical Nurses	28

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

COMMUNITY HOSPITAL OF ANDERSON

Medicare Provider Number: 150113

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,310	9.1	8.8	1.3	12.7	13.1	1.0	16.7	16.5	1.0
CONDITIONS:										
Acute Myocardial Infarction	32	40.6	32.5	*	46.9	35.6	*	50.0	39.1	*
Congestive Heart Failure	85	14.1	15.1	5.2	17.6	22.6	7.0	22.4	29.1	9.9
Pneumonia/Influenza	54	16.7	16.4	6.7	24.1	22.2	6.5	25.9	26.8	6.1
Chronic Obstructive Pulmonary Disease	16	0.0	4.3	*	0.0	7.7	*	12.5	10.8	*
Transient Cerebral Ischemia	27	0.0	1.6	*	0.0	3.4	*	3.7	5.3	*
Stroke	43	20.9	18.4	*	27.9	25.0	*	34.9	29.6	*
Hip Fracture	38	10.5	5.7	*	13.2	10.2	*	18.4	13.1	*
Sepsis	17	23.5	33.5	*	29.4	39.9	*	29.4	45.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	10	20.0	7.2	*	20.0	13.1	*	20.0	17.4	*
Carotid Endarterectomy	3	0.0	0.8	*	0.0	1.4	*	0.0	2.0	*
Hip Replacement/Reconstruction	18	5.6	3.3	*	5.6	6.1	*	5.6	8.0	*
Open Reduction of Hip Fracture	18	5.6	5.4	*	11.1	9.9	*	16.7	12.9	*
Prostatectomy	40	0.0	0.8	*	0.0	1.9	*	2.5	3.1	*
Cholecystectomy	29	0.0	2.1	*	3.4	4.0	*	6.9	5.5	*
Hysterectomy	13	0.0	0.4	*	0.0	0.9	*	0.0	1.4	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,272	9.3	8.9	0.9	13.2	13.3	1.1	16.2	16.9	1.2
CONDITIONS:										
Acute Myocardial Infarction	26	26.9	33.8	*	34.6	37.4	*	42.3	41.4	*
Congestive Heart Failure	68	19.1	16.8	8.3	33.8	25.2	10.8	41.2	32.2	10.8
Pneumonia/Influenza	60	11.7	16.4	6.8	18.3	22.1	7.2	23.3	26.6	6.8
Chronic Obstructive Pulmonary Disease	8	0.0	13.7	*	12.5	21.8	*	12.5	27.1	*
Transient Cerebral Ischemia	15	6.7	2.1	*	6.7	4.5	*	13.3	7.1	*
Stroke	60	13.3	19.9	9.0	16.7	25.6	11.8	21.7	30.0	13.2
Hip Fracture	27	3.7	6.1	*	7.4	10.8	*	7.4	14.0	*
Sepsis	11	27.3	38.6	*	27.3	46.3	*	36.4	52.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	8	12.5	4.1	*	25.0	9.5	*	25.0	15.3	*
Carotid Endarterectomy	3	0.0	2.1	*	0.0	4.9	*	0.0	7.5	*
Hip Replacement/Reconstruction	19	0.0	4.0	*	5.3	7.5	*	5.3	10.1	*
Open Reduction of Hip Fracture	12	0.0	4.7	*	0.0	8.7	*	0.0	11.4	*
Prostatectomy	56	0.0	1.1	1.7	0.0	2.6	3.3	3.6	4.1	2.7
Cholecystectomy	18	5.6	3.2	*	5.6	5.6	*	5.6	7.2	*
Hysterectomy	11	0.0	0.6	*	0.0	1.3	*	0.0	2.0	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

33.1

Community Hospital
of Anderson & Madison County

January 15, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
ATTN: Mrs. Sandra K. Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, MD 21207

Attention: Comments on Medicare Mortality Data Release

Community Hospital is pleased to submit the following comment for inclusion in the publication of Medicare Mortality Information for calendar year 1989.

We are gratified that the analysis of mortality information for Community Hospital indicates that our mortality rate for all causes is within the predicted range considering the margin for error (standard deviation). We feel that this is an indication of our high commitment to quality health care.

While we applaud the movement towards making as much information as possible available to those who would utilize our services, we feel that there are several important points that need to be carefully considered. Information that is confusing or in error runs the risk of being ignored, or worse, misused. In this regard, we feel that the mortality statistics as presented are dangerously prone to confusion and misinterpretation. As we all know, predictive statistics is inherently imprecise. To develop specific predictions about mortality rates, without corresponding margins of error (standard deviation), creates possible inferences that may not be warranted. To display comparisons between observed and predicted rates without allowing for consideration of the possible error in calculating those predicted rates, unfairly subjects hospitals to judgements that may not be warranted. Predictions must always include a range, otherwise, they are inherently unfair.

1515 North Madison Avenu
Anderson, Indiana 46011
317-642-8011
Fax: 317-646-5207

A division of Communit
Health Care Corporation

Health Care Financing Administration
January 15, 1991
Page Two

Mortality analysis can be a significant part of a comprehensive quality assurance program. In that regard, all patient deaths at Community Hospital are reviewed by our Medical Staff, along with the appropriate department, utilization management, and quality assurance professionals.

However, a hospital's mortality rate is only one of many indicators that should be considered when assessing overall performance. Patient demographics, severity of illness upon admission, medical and surgical complications, are important factors which are routinely examined as part of our continuing quality assurance program.

While we appreciate the opportunity to integrate HCFA's mortality review into our quality assurance program, we urge extreme caution when attempting to use mortality indicators alone to make comparisons of quality of care between hospitals. Quality health care is everyone's concern, and careful consideration should be given to the complexities involved before any judgements are made.

Thank you for the opportunity to respond.

Very truly yours,

Richard M. Cameron
President and Chief Executive Officer

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COMMUNITY HOSPITAL OF BREMEN

411 South Whitlock Street
Bremen, IN 46506

Medicare Provider Number: 150110

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	158	10.8	10.3	2.5	12.7	15.0	3.1	17.1	19.1	3.3
CONDITIONS:										
Acute Myocardial Infarction	5	40.0	42.4	*	40.0	47.1	*	60.0	51.8	*
Congestive Heart Failure	17	23.5	14.5	*	23.5	22.4	*	29.4	29.0	*
Pneumonia/Influenza	16	18.8	17.3	*	18.8	24.1	*	18.8	29.4	*
Chronic Obstructive Pulmonary Disease	2	0.0	9.1	*	50.0	13.6	*	100.0	18.3	*
Transient Cerebral Ischemia	4	0.0	2.6	*	0.0	6.0	*	0.0	9.8	*
Stroke	4	0.0	16.8	*	0.0	21.6	*	0.0	25.8	*
Hip Fracture	1	0.0	6.8	*	0.0	11.5	*	0.0	14.4	*
Sepsis	3	0.0	30.1	*	0.0	35.8	*	0.0	42.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	28
Occupancy Rate	25
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	6
Percent of Physicians Board Certified Specialists	100
Medical Residents/Interns	0
Registered Nurses	17
Licensed Practical Nurses	8

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

COMMUNITY HOSPITAL OF BREMEN

Medicare Provider Number: 150110

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	154	14.3	11.8	3.2	16.2	16.5	3.0	18.8	20.4	3.9
CONDITIONS:										
Acute Myocardial Infarction	8	25.0	42.4	*	25.0	45.8	*	25.0	50.0	*
Congestive Heart Failure	10	20.0	17.3	*	20.0	25.0	*	20.0	31.7	*
Pneumonia/Influenza	17	23.5	18.6	*	29.4	24.9	*	29.4	29.7	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	5	0.0	2.8	*	0.0	6.5	*	0.0	10.5	*
Stroke	10	50.0	26.7	*	50.0	33.7	*	60.0	38.8	*
Hip Fracture	0									
Sepsis	1	100.0	31.1	*	100.0	36.3	*	100.0	42.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	152	10.5	12.9	4.4	15.1	18.4	4.7	20.4	23.0	4.8
CONDITIONS:										
Acute Myocardial Infarction	9	33.3	38.0	*	33.3	42.4	*	33.3	47.0	*
Congestive Heart Failure	10	20.0	20.7	*	30.0	31.1	*	50.0	38.7	*
Pneumonia/Influenza	12	8.3	21.6	*	25.0	29.7	*	33.3	35.7	*
Chronic Obstructive Pulmonary Disease	4	50.0	18.4	*	50.0	27.3	*	50.0	33.6	*
Transient Cerebral Ischemia	5	0.0	2.6	*	0.0	5.7	*	0.0	9.1	*
Stroke	8	12.5	24.1	*	25.0	31.6	*	37.5	37.2	*
Hip Fracture	1	0.0	11.2	*	0.0	26.0	*	0.0	39.1	*
Sepsis	3	66.7	52.9	*	66.7	62.8	*	66.7	71.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

COMMUNITY HOSPITAL SOUTH INC

1402 E County Line Rd South
Indianapolis, IN 46247

Medicare Provider Number: 150128

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	961	9.5	7.7	1.1	13.7	12.3	1.3	18.8	16.0	1.7
CONDITIONS:										
Acute Myocardial Infarction	17	23.5	30.5	*	23.5	33.9	*	23.5	37.6	*
Congestive Heart Failure	49	14.3	15.9	*	20.4	25.4	*	30.6	32.7	*
Pneumonia/Influenza	44	13.6	15.7	*	27.3	22.0	*	36.4	27.1	*
Chronic Obstructive Pulmonary Disease	22	4.5	3.8	*	13.6	8.2	*	22.7	12.5	*
Transient Cerebral Ischemia	7	0.0	1.5	*	0.0	3.5	*	0.0	5.7	*
Stroke	28	28.6	17.7	*	28.6	24.3	*	32.1	28.9	*
Hip Fracture	41	12.2	5.7	*	17.1	10.7	*	19.5	14.4	*
Sepsis	7	42.9	36.0	*	42.9	49.2	*	71.4	58.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	4	0.0	1.2	*	0.0	2.2	*	0.0	3.3	*
Hip Replacement/Reconstruction	9	11.1	2.4	*	11.1	4.8	*	11.1	6.6	*
Open Reduction of Hip Fracture	21	9.5	5.7	*	14.3	10.8	*	19.0	14.8	*
Prostatectomy	33	0.0	0.5	*	0.0	1.1	*	0.0	1.9	*
Cholecystectomy	21	4.8	1.6	*	4.8	2.7	*	4.8	3.5	*
Hysterectomy	16	6.3	0.2	*	6.3	0.5	*	6.3	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	100
Occupancy Rate	57
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	(Not Available)
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	(Not Available)
Registered Nurses	(Not Available)
Licensed Practical Nurses	(Not Available)

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

COMMUNITY HOSPITAL SOUTH INC

Medicare Provider Number: 150128

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	894	10.4	7.6	1.3	14.9	11.8	1.5	18.7	15.2	1.6
CONDITIONS:										
Acute Myocardial Infarction	18	38.9	27.9	*	44.4	30.6	*	44.4	33.9	*
Congestive Heart Failure	41	14.6	16.7	*	26.8	26.4	*	29.3	34.1	*
Pneumonia/Influenza	39	23.1	14.2	*	23.1	19.5	*	30.8	23.7	*
Chronic Obstructive Pulmonary Disease	21	14.3	4.9	*	19.0	9.6	*	23.8	14.0	*
Transient Cerebral Ischemia	10	0.0	1.5	*	10.0	3.3	*	10.0	5.2	*
Stroke	43	20.9	19.8	*	25.6	26.9	*	27.9	31.9	*
Hip Fracture	29	6.9	5.4	*	10.3	9.9	*	13.8	13.0	*
Sepsis	8	62.5	37.6	*	62.5	45.3	*	62.5	51.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	4.2	*	0.0	8.0	*	50.0	11.7	*
Carotid Endarterectomy	4	0.0	1.3	*	0.0	2.3	*	0.0	3.4	*
Hip Replacement/Reconstruction	7	14.3	4.7	*	14.3	9.0	*	28.6	11.9	*
Open Reduction of Hip Fracture	12	8.3	6.1	*	8.3	11.1	*	8.3	14.6	*
Prostatectomy	16	0.0	0.5	*	0.0	1.1	*	0.0	2.0	*
Cholecystectomy	13	0.0	2.1	*	0.0	3.9	*	0.0	5.0	*
Hysterectomy	17	5.9	0.3	*	5.9	0.6	*	5.9	1.0	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	919	9.9	8.2	1.4	15.6	12.4	2.0	18.9	15.8	2.0
CONDITIONS:										
Acute Myocardial Infarction	29	24.1	28.7	*	27.6	32.6	*	31.0	36.4	*
Congestive Heart Failure	40	20.0	16.6	*	27.5	26.1	*	37.5	33.8	*
Pneumonia/Influenza	52	34.6	17.0	8.2	44.2	23.7	9.7	50.0	28.9	9.8
Chronic Obstructive Pulmonary Disease	12	8.3	8.1	*	8.3	13.7	*	16.7	18.0	*
Transient Cerebral Ischemia	15	6.7	1.9	*	6.7	4.1	*	6.7	6.5	*
Stroke	33	27.3	19.2	*	33.3	25.8	*	33.3	30.6	*
Hip Fracture	28	7.1	6.8	*	14.3	12.3	*	21.4	16.3	*
Sepsis	14	35.7	35.5	*	42.9	43.0	*	42.9	50.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	1.5	*	0.0	2.9	*	0.0	4.1	*
Carotid Endarterectomy	2	0.0	2.0	*	0.0	4.4	*	0.0	6.8	*
Hip Replacement/Reconstruction	9	11.1	6.1	*	22.2	10.8	*	22.2	13.9	*
Open Reduction of Hip Fracture	10	0.0	5.7	*	0.0	11.1	*	10.0	15.0	*
Prostatectomy	39	5.1	0.9	*	12.8	2.4	*	15.4	4.1	*
Cholecystectomy	23	4.3	2.3	*	13.0	3.8	*	13.0	4.9	*
Hysterectomy	8	12.5	0.3	*	12.5	0.6	*	12.5	1.0	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

DAVIESS COUNTY HOSPITAL

1314 Grand Ave
Washington, IN 47501

Medicare Provider Number: 150061

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	792	10.6	9.7	1.3	14.8	14.4	1.3	17.9	18.1	1.4
CONDITIONS:										
Acute Myocardial Infarction	34	23.5	23.2	*	26.5	26.3	*	26.5	29.5	*
Congestive Heart Failure	49	14.3	16.9	*	26.5	25.8	*	34.7	32.8	*
Pneumonia/Influenza	66	13.6	14.2	5.4	15.2	19.5	7.0	19.7	23.8	8.3
Chronic Obstructive Pulmonary Disease	6	16.7	12.8	*	50.0	19.8	*	50.0	25.8	*
Transient Cerebral Ischemia	16	6.3	1.9	*	6.3	4.3	*	12.5	6.8	*
Stroke	44	29.5	19.4	*	36.4	25.0	*	40.9	29.4	*
Hip Fracture	22	4.5	7.8	*	4.5	13.7	*	4.5	17.5	*
Sepsis	11	54.5	31.4	*	54.5	38.0	*	54.5	44.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	1.7	*	0.0	3.8	*	0.0	6.0	*
Carotid Endarterectomy	3	0.0	1.0	*	0.0	1.8	*	0.0	2.6	*
Hip Replacement/Reconstruction	14	7.1	4.7	*	7.1	9.1	*	7.1	12.2	*
Open Reduction of Hip Fracture	12	0.0	7.5	*	0.0	13.7	*	0.0	17.7	*
Prostatectomy	25	4.0	1.2	*	8.0	3.0	*	8.0	5.2	*
Cholecystectomy	25	4.0	2.2	*	4.0	3.8	*	4.0	4.8	*
Hysterectomy	3	0.0	0.1	*	0.0	0.1	*	0.0	0.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1988

Total Beds	136
Occupancy Rate	43
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	23
Percent of Physicians Board Certified Specialists	61
Medical Residents/Interns	0
Registered Nurses	58
Licensed Practical Nurses	8

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

DAVIESS COUNTY HOSPITAL

Medicare Provider Number: 150061

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	792	11.2	10.0	1.4	16.7	14.8	1.6	19.7	18.6	1.5
CONDITIONS:										
Acute Myocardial Infarction	26	38.5	21.4	*	38.5	24.4	*	38.5	27.5	*
Congestive Heart Failure	47	12.8	16.1	*	25.5	24.5	*	31.9	31.3	*
Pneumonia/Influenza	66	10.6	17.0	5.9	22.7	23.1	5.2	24.2	27.9	6.7
Chronic Obstructive Pulmonary Disease	8	12.5	8.7	*	12.5	12.7	*	12.5	16.5	*
Transient Cerebral Ischemia	30	0.0	2.1	*	3.3	4.6	*	3.3	7.3	*
Stroke	57	28.1	22.3	10.0	38.6	28.6	9.7	38.6	33.5	10.5
Hip Fracture	32	12.5	7.3	*	15.6	13.2	*	21.9	16.8	*
Sepsis	7	14.3	31.0	*	14.3	36.3	*	14.3	42.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	6	0.0	4.9	*	0.0	8.4	*	0.0	11.8	*
Carotid Endarterectomy	9	0.0	1.7	*	22.2	3.6	*	33.3	5.4	*
Hip Replacement/Reconstruction	20	15.0	5.3	*	20.0	10.3	*	20.0	13.6	*
Open Reduction of Hip Fracture	15	0.0	5.7	*	0.0	10.4	*	6.7	13.3	*
Prostatectomy	19	0.0	0.9	*	5.3	2.2	*	5.3	3.7	*
Cholecystectomy	18	0.0	2.4	*	0.0	4.7	*	5.6	6.4	*
Hysterectomy	5	0.0	0.2	*	0.0	0.4	*	0.0	0.7	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	746	10.7	9.3	1.4	16.5	14.1	2.0	20.4	18.0	2.5
CONDITIONS:										
Acute Myocardial Infarction	24	37.5	24.5	*	41.7	28.5	*	45.8	31.9	*
Congestive Heart Failure	50	16.0	15.7	*	24.0	23.9	*	32.0	30.7	*
Pneumonia/Influenza	54	14.8	15.6	5.0	24.1	21.7	6.1	29.6	26.7	6.4
Chronic Obstructive Pulmonary Disease	6	16.7	9.5	*	16.7	15.3	*	16.7	19.8	*
Transient Cerebral Ischemia	14	0.0	1.7	*	0.0	3.6	*	7.1	5.8	*
Stroke	43	30.2	20.1	*	39.5	26.3	*	41.9	31.2	*
Hip Fracture	24	8.3	5.6	*	12.5	10.3	*	16.7	13.6	*
Sepsis	6	0.0	34.1	*	16.7	40.3	*	16.7	46.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	6	0.0	7.7	*	0.0	11.1	*	0.0	14.8	*
Carotid Endarterectomy	9	0.0	2.8	*	0.0	6.4	*	11.1	10.0	*
Hip Replacement/Reconstruction	5	20.0	3.9	*	20.0	7.6	*	20.0	10.1	*
Open Reduction of Hip Fracture	12	0.0	4.4	*	0.0	8.5	*	8.3	11.5	*
Prostatectomy	19	0.0	2.0	*	0.0	4.7	*	0.0	7.4	*
Cholecystectomy	17	0.0	2.6	*	5.9	5.1	*	5.9	7.1	*
Hysterectomy	5	0.0	0.4	*	0.0	0.7	*	0.0	1.0	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

DEACONESS HOSPITAL INC

600 Mary Street
Evansville, IN 47710

Medicare Provider Number: 150082

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	4,224	9.4	8.5	0.7	13.8	12.9	0.7	17.3	16.5	0.8
CONDITIONS:										
Acute Myocardial Infarction	123	31.7	24.8	4.5	32.5	28.2	4.4	34.1	31.6	4.6
Congestive Heart Failure	243	16.9	14.2	3.3	24.7	22.4	3.0	29.6	29.2	3.0
Pneumonia/Influenza	216	16.7	15.7	2.7	24.1	21.6	4.4	27.8	26.1	3.3
Chronic Obstructive Pulmonary Disease	61	4.9	4.7	3.6	6.6	9.3	4.6	11.5	13.5	5.3
Transient Cerebral Ischemia	54	1.9	1.6	1.9	1.9	3.6	2.9	5.6	5.8	3.2
Stroke	139	20.9	19.7	3.9	26.6	26.1	4.3	30.2	30.5	4.7
Hip Fracture	107	6.5	6.1	2.4	10.3	10.8	3.1	14.0	13.8	3.3
Sepsis	74	20.3	26.5	10.7	33.8	33.7	6.5	35.1	39.5	6.7
PROCEDURES:										
Angioplasty	65	4.6	2.6	3.0	4.6	3.3	3.8	7.7	4.2	4.1
Coronary Artery Bypass Graft	75	9.3	4.5	4.4	10.7	6.1	4.3	10.7	7.2	4.1
Initial Pacemaker Insertion	22	9.1	3.1	*	9.1	6.0	*	9.1	8.7	*
Carotid Endarterectomy	48	4.2	1.5	*	4.2	2.7	*	8.3	3.9	*
Hip Replacement/Reconstruction	80	5.0	2.9	3.3	7.5	5.5	3.8	7.5	7.3	4.1
Open Reduction of Hip Fracture	43	4.7	6.5	*	9.3	11.8	*	16.3	15.2	*
Prostatectomy	106	3.8	1.4	2.4	4.7	3.4	2.1	5.7	5.6	2.2
Cholecystectomy	77	5.2	3.5	2.7	9.1	6.4	4.3	11.7	8.6	5.7
Hysterectomy	32	0.0	1.0	*	0.0	2.2	*	3.1	3.4	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	596
Occupancy Rate	52
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	214
Percent of Physicians Board Certified Specialists	86
Medical Residents/Interns	13
Registered Nurses	427
Licensed Practical Nurses	25

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	Yes

** **Not used in calculating hospital mortality rates.**

DEACONESS HOSPITAL INC

Medicare Provider Number: 150082

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,975	10.2	8.0	0.5	15.3	12.4	0.6	18.9	16.0	0.6
CONDITIONS:										
Acute Myocardial Infarction	129	34.1	26.1	6.9	38.8	29.9	6.8	39.5	33.4	5.7
Congestive Heart Failure	217	17.5	14.0	4.7	27.2	21.8	4.6	32.3	28.5	4.3
Pneumonia/Influenza	167	13.8	15.1	3.0	22.8	20.7	3.5	28.1	25.2	4.9
Chronic Obstructive Pulmonary Disease	57	8.8	4.9	4.7	17.5	9.6	7.6	17.5	13.7	6.1
Transient Cerebral Ischemia	58	3.4	1.9	2.3	8.6	4.2	4.1	13.8	6.6	5.3
Stroke	127	24.4	17.6	6.4	30.7	24.2	7.1	35.4	28.7	6.7
Hip Fracture	109	9.2	6.1	3.8	11.0	11.1	3.8	14.7	14.3	4.3
Sepsis	74	23.0	24.4	5.2	31.1	32.3	7.4	31.1	38.7	8.5
PROCEDURES:										
Angioplasty	86	8.1	3.6	3.4	9.3	4.7	3.7	9.3	5.8	3.9
Coronary Artery Bypass Graft	61	4.9	4.7	4.3	4.9	6.9	4.5	6.6	8.3	4.6
Initial Pacemaker Insertion	25	4.0	5.4	*	4.0	8.3	*	4.0	10.8	*
Carotid Endarterectomy	34	2.9	1.5	*	2.9	2.8	*	2.9	4.0	*
Hip Replacement/Reconstruction	71	2.8	2.9	2.0	4.2	5.4	3.0	4.2	7.1	3.9
Open Reduction of Hip Fracture	42	16.7	5.7	*	16.7	10.7	*	23.8	14.2	*
Prostatectomy	96	4.2	1.4	2.6	5.2	3.2	3.3	8.3	5.0	5.0
Cholecystectomy	81	6.2	2.9	2.7	9.9	5.0	3.8	11.1	6.5	4.4
Hysterectomy	17	0.0	1.0	*	0.0	2.0	*	5.9	3.1	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,876	8.8	7.5	0.6	13.3	11.7	0.7	16.7	15.1	0.7
CONDITIONS:										
Acute Myocardial Infarction	120	31.7	24.2	4.9	32.5	27.6	4.8	35.0	31.2	4.5
Congestive Heart Failure	183	19.7	14.4	3.1	27.9	22.4	4.6	39.9	29.1	4.9
Pneumonia/Influenza	135	15.6	16.4	3.3	24.4	22.6	4.1	28.9	27.7	4.3
Chronic Obstructive Pulmonary Disease	27	3.7	6.6	*	3.7	12.1	*	7.4	16.6	*
Transient Cerebral Ischemia	82	0.0	1.5	2.7	4.9	3.2	2.4	7.3	5.1	4.0
Stroke	139	20.1	18.3	6.3	29.5	25.2	6.7	34.5	29.7	7.9
Hip Fracture	86	4.7	5.3	2.5	9.3	10.1	3.3	12.8	13.5	4.0
Sepsis	64	28.1	24.3	7.2	37.5	32.6	8.4	40.6	38.5	6.7
PROCEDURES:										
Angioplasty	56	3.6	3.7	2.5	3.6	4.7	3.0	3.6	5.9	3.7
Coronary Artery Bypass Graft	62	9.7	5.3	4.4	12.9	7.5	5.2	14.5	8.8	5.6
Initial Pacemaker Insertion	32	0.0	3.8	*	0.0	7.6	*	0.0	10.8	*
Carotid Endarterectomy	26	0.0	1.4	*	0.0	2.7	*	0.0	3.8	*
Hip Replacement/Reconstruction	64	1.6	2.6	2.2	4.7	5.2	3.1	9.4	7.2	4.2
Open Reduction of Hip Fracture	44	4.5	4.6	*	9.1	9.1	*	9.1	12.5	*
Prostatectomy	92	3.3	1.2	1.6	3.3	2.9	3.8	9.8	4.8	3.8
Cholecystectomy	67	6.0	3.7	3.0	6.0	5.8	2.9	7.5	7.1	3.2
Hysterectomy	19	0.0	0.5	*	0.0	1.2	*	0.0	1.9	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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DEACONESS
HOSPITAL

January 14, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
ATTN: Mrs. Sandra Kappert
2-D-2 Meadows East Bldg.
6325 Security Blvd.
Baltimore, Maryland 21207

Dear Sir:

Thank you for the opportunity to review and respond to the 1989 Medicare mortality statistics.

We have spent numerous hours analyzing the data in an attempt to understand your findings, but must admit the new statistical model is most difficult to interpret.

After applying the formula to derive a measure of certainty, we find our hospital is well within the acceptable ranges of predicted mortality for the conditions and procedures reviewed. The one exception, the "All Cause" category, leaves us a bit perplexed. We realize your new model is based on a fiscal year rather than a calendar year, however, we cannot discern why the 1987 and 1988 "All Cause" category would vary enough to significantly change the mortality rates, since they were previously reported to be within range.

We would suggest, between now and the release of this information in early spring, a more understandable format be developed by HCFA, if the true objective is to have the public understand the report.

Despite the complexity and apparent continued efforts to refine methods which generate mortality data, we believe it is important for the public to know that this information is not an appropriate guide to a hospital's performance or quality of care. Rather, this report is a useful tool for clinicians who must evaluate the quality and appropriateness of health care services.

Mortality review continues to be a vital part of Deaconess Hospital's quality assurance process. Our Medical Staff departments review all deaths to distinguish those that were anticipated from those that were unexpected. In doing so, the Medical Staff answers a series of critical questions which examine all aspect of the appropriateness of the care provided.

Sincerely,

Thomas K

Thomas H. Kramer
President

THK/pmw

600 Mary Street, Evansville, Indiana 47747·(812) 426-3000
VHA Voluntary Hospitals of America, Inc

DEARBORN COUNTY HOSPITAL

600 Wilson Creek Rd
Lawrenceburg, IN 47025

Medicare Provider Number: 150086

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,057	9.5	10.6	1.7	15.0	15.7	1.9	19.1	19.7	2.0
CONDITIONS:										
Acute Myocardial Infarction	18	44.4	25.2	*	50.0	27.8	*	50.0	30.8	*
Congestive Heart Failure	65	16.9	15.6	4.7	21.5	24.3	6.1	32.3	31.2	6.4
Pneumonia/Influenza	109	12.8	18.2	5.7	21.1	24.6	5.3	28.4	29.5	4.6
Chronic Obstructive Pulmonary Disease	13	0.0	4.4	*	7.7	8.3	*	7.7	11.9	*
Transient Cerebral Ischemia	18	0.0	1.9	*	0.0	4.3	*	5.6	6.9	*
Stroke	35	22.9	24.2	*	28.6	31.5	*	37.1	36.5	*
Hip Fracture	44	0.0	6.9	*	6.8	12.2	*	9.1	15.8	*
Sepsis	26	38.5	34.4	*	46.2	41.8	*	50.0	48.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	0.5	*	0.0	1.4	*	0.0	2.8	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	15	0.0	5.1	*	0.0	9.5	*	0.0	12.5	*
Open Reduction of Hip Fracture	24	0.0	6.5	*	12.5	12.2	*	16.7	16.3	*
Prostatectomy	45	0.0	1.8	*	2.2	3.3	*	4.4	5.0	*
Cholecystectomy	23	13.0	2.0	*	13.0	3.4	*	13.0	4.4	*
Hysterectomy	8	0.0	0.5	*	0.0	1.0	*	0.0	1.6	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	131
Occupancy Rate	42
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	42
Percent of Physicians Board Certified Specialists	71
Medical Residents/Interns	0
Registered Nurses	83
Licensed Practical Nurses	26

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

DEARBORN COUNTY HOSPITAL

Medicare Provider Number: 150086

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,075	10.6	10.9	1.8	14.9	16.1	1.9	18.8	20.2	2.3
CONDITIONS:										
Acute Myocardial Infarction	27	25.9	27.9	*	25.9	31.6	*	29.6	35.2	*
Congestive Heart Failure	72	9.7	16.9	6.0	18.1	25.5	6.5	29.2	32.4	5.8
Pneumonia/Influenza	78	17.9	17.8	5.0	24.4	23.7	4.9	26.9	28.6	6.0
Chronic Obstructive Pulmonary Disease	10	0.0	8.3	*	0.0	13.8	*	10.0	18.1	*
Transient Cerebral Ischemia	14	7.1	1.7	*	7.1	3.7	*	14.3	5.9	*
Stroke	51	31.4	26.2	7.1	39.2	33.2	9.3	43.1	38.0	8.0
Hip Fracture	28	3.6	7.6	*	3.6	13.4	*	7.1	16.8	*
Sepsis	10	30.0	29.1	*	50.0	39.2	*	60.0	45.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	1.4	*	0.0	3.3	*	0.0	5.3	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	13	0.0	7.8	*	0.0	14.0	*	0.0	18.8	*
Open Reduction of Hip Fracture	12	0.0	5.8	*	0.0	10.9	*	8.3	14.2	*
Prostatectomy	31	0.0	1.2	*	3.2	3.1	*	9.7	5.2	*
Cholecystectomy	25	12.0	4.9	*	16.0	8.0	*	16.0	10.1	*
Hysterectomy	10	0.0	1.0	*	0.0	2.5	*	0.0	4.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,118	9.6	9.9	1.0	14.4	14.9	1.3	18.1	18.9	1.3
CONDITIONS:										
Acute Myocardial Infarction	44	29.5	30.3	*	31.8	33.9	*	34.1	37.6	*
Congestive Heart Failure	69	11.6	15.8	5.7	18.8	24.6	7.1	21.7	31.8	9.3
Pneumonia/Influenza	90	14.4	17.0	5.5	18.9	23.4	7.7	21.1	28.4	10.1
Chronic Obstructive Pulmonary Disease	3	0.0	6.3	*	0.0	11.5	*	0.0	15.6	*
Transient Cerebral Ischemia	25	0.0	1.7	*	8.0	3.6	*	8.0	5.6	*
Stroke	56	19.6	21.1	5.7	23.2	27.9	7.4	30.4	32.6	6.6
Hip Fracture	34	11.8	6.6	*	11.8	12.1	*	17.6	15.9	*
Sepsis	15	13.3	22.0	*	13.3	29.2	*	20.0	35.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	5.2	*	0.0	12.3	*	25.0	19.7	*
Carotid Endarterectomy	5	20.0	1.8	*	20.0	3.6	*	20.0	5.3	*
Hip Replacement/Reconstruction	11	9.1	3.3	*	9.1	6.6	*	9.1	8.9	*
Open Reduction of Hip Fracture	19	21.1	5.3	*	21.1	10.4	*	31.6	14.1	*
Prostatectomy	24	0.0	1.7	*	8.3	4.0	*	8.3	6.6	*
Cholecystectomy	23	4.3	1.5	*	4.3	2.5	*	8.7	3.1	*
Hysterectomy	10	0.0	0.3	*	0.0	0.5	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

DECATUR COUNTY MEMORIAL HOSPITAL

720 North Lincoln Street
Greensburg, IN 47240

Medicare Provider Number: 150062

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	501	9.0	10.6	2.2	15.2	15.7	2.6	18.4	19.8	2.3
CONDITIONS:										
Acute Myocardial Infarction	15	33.3	36.0	*	40.0	39.3	*	40.0	43.6	*
Congestive Heart Failure	43	7.0	14.3	*	11.6	22.0	*	18.6	28.5	*
Pneumonia/Influenza	59	13.6	17.0	5.7	28.8	23.2	6.3	32.2	28.1	7.4
Chronic Obstructive Pulmonary Disease	9	11.1	6.7	*	22.2	13.8	*	22.2	20.5	*
Transient Cerebral Ischemia	9	11.1	1.9	*	11.1	4.2	*	11.1	6.8	*
Stroke	17	29.4	24.2	*	41.2	30.7	*	41.2	35.6	*
Hip Fracture	11	0.0	6.5	*	0.0	11.3	*	0.0	14.5	*
Sepsis	6	33.3	30.1	*	50.0	37.7	*	50.0	44.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	9.3	*	0.0	16.7	*	0.0	21.0	*
Open Reduction of Hip Fracture	6	0.0	6.0	*	0.0	10.5	*	0.0	13.4	*
Prostatectomy	14	0.0	1.4	*	0.0	3.6	*	0.0	6.1	*
Cholecystectomy	3	0.0	2.1	*	0.0	3.4	*	0.0	4.3	*
Hysterectomy	3	0.0	0.3	*	0.0	0.4	*	0.0	0.7	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	80
Occupancy Rate	50
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	17
Percent of Physicians Board Certified Specialists	47
Medical Residents/Interns	0
Registered Nurses	40
Licensed Practical Nurses	18

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

DECATUR COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 150062

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	506	11.9	10.7	1.9	17.4	15.9	2.2	20.4	20.1	1.9
CONDITIONS:										
Acute Myocardial Infarction	28	28.6	34.3	*	28.6	38.5	*	28.6	43.0	*
Congestive Heart Failure	38	21.1	15.7	*	34.2	24.6	*	39.5	31.6	*
Pneumonia/Influenza	45	13.3	15.4	*	20.0	21.1	*	20.0	25.7	*
Chronic Obstructive Pulmonary Disease	10	0.0	6.7	*	0.0	14.0	*	0.0	20.7	*
Transient Cerebral Ischemia	12	8.3	1.8	*	8.3	4.0	*	16.7	6.3	*
Stroke	15	26.7	18.8	*	40.0	25.3	*	46.7	30.1	*
Hip Fracture	14	0.0	7.1	*	7.1	13.3	*	14.3	17.4	*
Sepsis	6	33.3	35.9	*	33.3	42.9	*	50.0	49.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	0.0	4.1	*	20.0	8.1	*	40.0	10.9	*
Open Reduction of Hip Fracture	4	0.0	6.3	*	0.0	12.4	*	0.0	16.7	*
Prostatectomy	8	0.0	0.9	*	0.0	2.4	*	0.0	4.1	*
Cholecystectomy	5	0.0	1.3	*	0.0	2.6	*	0.0	3.5	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	535	11.0	9.6	2.1	17.4	14.2	2.9	20.9	18.1	3.0
CONDITIONS:										
Acute Myocardial Infarction	27	29.6	29.7	*	37.0	33.2	*	37.0	37.0	*
Congestive Heart Failure	50	20.0	15.1	*	36.0	23.5	*	38.0	30.4	*
Pneumonia/Influenza	36	33.3	15.6	*	44.4	21.6	*	47.2	26.6	*
Chronic Obstructive Pulmonary Disease	5	0.0	3.3	*	0.0	7.2	*	0.0	10.7	*
Transient Cerebral Ischemia	11	0.0	3.0	*	0.0	6.6	*	9.1	10.3	*
Stroke	27	25.9	19.2	*	40.7	25.8	*	44.4	30.5	*
Hip Fracture	11	9.1	7.0	*	27.3	13.5	*	27.3	18.1	*
Sepsis	9	11.1	30.2	*	33.3	39.8	*	33.3	47.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	1.1	*	0.0	2.4	*	0.0	3.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	5.9	*	50.0	11.8	*	50.0	16.1	*
Open Reduction of Hip Fracture	4	0.0	5.9	*	25.0	11.1	*	25.0	14.6	*
Prostatectomy	19	0.0	0.9	*	5.3	2.4	*	5.3	4.2	*
Cholecystectomy	7	0.0	1.0	*	0.0	1.9	*	14.3	2.6	*
Hysterectomy	4	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

DEKALB MEMORIAL HOSPITAL INC

East Seventh St
Auburn, IN 46706

Medicare Provider Number: 150045

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	566	11.7	9.4	1.8	17.3	14.0	2.3	20.3	17.7	2.6
CONDITIONS:										
Acute Myocardial Infarction	24	25.0	31.8	*	37.5	35.7	*	45.8	39.4	*
Congestive Heart Failure	36	19.4	14.4	*	30.6	22.7	*	33.3	29.3	*
Pneumonia/Influenza	30	20.0	14.2	*	23.3	19.6	*	23.3	24.1	*
Chronic Obstructive Pulmonary Disease	8	25.0	7.1	*	25.0	13.7	*	25.0	19.3	*
Transient Cerebral Ischemia	4	0.0	2.3	*	0.0	5.3	*	0.0	8.4	*
Stroke	25	20.0	20.9	*	28.0	27.1	*	28.0	31.7	*
Hip Fracture	14	14.3	5.6	*	21.4	10.4	*	28.6	13.8	*
Sepsis	7	0.0	28.6	*	0.0	35.1	*	0.0	41.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	25.0	2.2	*	50.0	5.3	*	50.0	8.6	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	4	0.0	3.5	*	0.0	7.1	*	0.0	9.8	*
Prostatectomy	13	0.0	0.6	*	0.0	1.6	*	0.0	2.8	*
Cholecystectomy	16	0.0	1.9	*	6.3	3.6	*	12.5	5.1	*
Hysterectomy	9	0.0	1.3	*	0.0	2.8	*	0.0	4.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	56
Occupancy Rate	52
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	16
Percent of Physicians Board Certified Specialists	100
Medical Residents/Interns	0
Registered Nurses	55
Licensed Practical Nurses	1

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

DEKALB MEMORIAL HOSPITAL INC

Medicare Provider Number: 150045

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	526	10.1	9.7	2.2	16.0	13.9	2.6	19.0	17.4	2.6
CONDITIONS:										
Acute Myocardial Infarction	23	8.7	28.3	*	13.0	31.2	*	21.7	35.0	*
Congestive Heart Failure	28	14.3	13.6	*	35.7	21.1	*	42.9	27.4	*
Pneumonia/Influenza	24	16.7	14.4	*	25.0	19.9	*	29.2	24.5	*
Chronic Obstructive Pulmonary Disease	10	0.0	6.0	*	10.0	11.1	*	10.0	15.8	*
Transient Cerebral Ischemia	14	0.0	2.0	*	0.0	4.5	*	0.0	7.2	*
Stroke	29	20.7	18.7	*	24.1	24.9	*	27.6	29.8	*
Hip Fracture	23	4.3	7.7	*	21.7	13.7	*	26.1	17.6	*
Sepsis	9	33.3	27.5	*	33.3	33.4	*	44.4	39.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	1	0.0	0.8	*	0.0	1.4	*	0.0	2.0	*
Hip Replacement/Reconstruction	1	0.0	4.0	*	0.0	7.3	*	0.0	9.5	*
Open Reduction of Hip Fracture	1	0.0	6.0	*	0.0	12.0	*	0.0	16.3	*
Prostatectomy	12	0.0	0.5	*	0.0	1.3	*	0.0	2.2	*
Cholecystectomy	14	0.0	2.5	*	0.0	5.4	*	0.0	7.8	*
Hysterectomy	3	0.0	0.1	*	0.0	0.1	*	0.0	0.2	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	543	12.3	8.6	1.8	16.4	12.8	1.9	19.7	16.3	2.1
CONDITIONS:										
Acute Myocardial Infarction	13	38.5	31.6	*	38.5	34.6	*	38.5	38.5	*
Congestive Heart Failure	42	21.4	13.8	*	28.6	21.0	*	28.6	27.3	*
Pneumonia/Influenza	29	13.8	15.9	*	13.8	21.4	*	13.8	26.0	*
Chronic Obstructive Pulmonary Disease	5	20.0	11.2	*	20.0	15.0	*	60.0	18.2	*
Transient Cerebral Ischemia	14	7.1	2.1	*	7.1	4.7	*	7.1	7.6	*
Stroke	17	29.4	19.0	*	47.1	25.0	*	47.1	29.6	*
Hip Fracture	24	8.3	6.0	*	16.7	10.8	*	20.8	14.1	*
Sepsis	9	33.3	27.4	*	33.3	34.0	*	33.3	40.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	3.7	*	0.0	7.4	*	0.0	10.1	*
Open Reduction of Hip Fracture	4	0.0	7.3	*	25.0	12.8	*	25.0	16.0	*
Prostatectomy	7	0.0	0.5	*	0.0	1.2	*	0.0	2.1	*
Cholecystectomy	25	4.0	1.7	*	4.0	3.0	*	4.0	3.8	*
Hysterectomy	6	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

DUKES MEMORIAL HOSPITAL

Grant and Boulevard
Peru, IN 46970

Medicare Provider Number: 150067

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	609	7.4	8.6	1.6	12.3	12.7	1.6	16.4	16.3	1.5
CONDITIONS:										
Acute Myocardial Infarction	10	20.0	37.2	*	20.0	40.7	*	30.0	45.0	*
Congestive Heart Failure	38	23.7	16.6	*	28.9	25.2	*	31.6	31.9	*
Pneumonia/Influenza	62	8.1	14.9	9.3	12.9	20.2	9.4	19.4	24.5	8.4
Chronic Obstructive Pulmonary Disease	13	7.7	8.9	*	7.7	17.1	*	15.4	23.6	*
Transient Cerebral Ischemia	12	0.0	1.9	*	0.0	4.2	*	0.0	6.6	*
Stroke	21	0.0	24.5	*	23.8	31.8	*	33.3	36.9	*
Hip Fracture	8	0.0	4.4	*	0.0	7.7	*	0.0	9.9	*
Sepsis	10	40.0	31.0	*	40.0	35.9	*	50.0	41.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	3.3	*	0.0	6.4	*	0.0	8.7	*
Open Reduction of Hip Fracture	8	0.0	3.8	*	0.0	7.0	*	0.0	9.2	*
Prostatectomy	13	0.0	0.9	*	0.0	2.2	*	0.0	3.8	*
Cholecystectomy	13	0.0	1.2	*	0.0	2.3	*	0.0	3.0	*
Hysterectomy	8	0.0	0.2	*	0.0	0.4	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1991

Total Beds	158
Ownership/Control	Local Government

STAFFING:

Medical Residents/Interns	0
Registered Nurses	52
Licensed Practical Nurses	19

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	Yes
Hospice	No
Intensive Care Unit	Yes
Organ Transplant	No
Rehabilitation	Yes
Shock Trauma	No

**** Not used in calculating hospital mortality rates.**

DUKES MEMORIAL HOSPITAL

Medicare Provider Number: 150067

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	602	10.5	9.4	1.7	15.1	13.7	2.1	18.6	17.4	2.6
CONDITIONS:										
Acute Myocardial Infarction	15	33.3	40.5	*	40.0	44.5	*	40.0	48.8	*
Congestive Heart Failure	41	22.0	15.9	*	26.8	24.5	*	36.6	31.4	*
Pneumonia/Influenza	57	14.0	18.0	8.5	22.8	24.1	7.3	26.3	28.9	7.4
Chronic Obstructive Pulmonary Disease	10	10.0	7.4	*	20.0	12.3	*	20.0	17.2	*
Transient Cerebral Ischemia	13	15.4	2.2	*	23.1	5.0	*	23.1	7.9	*
Stroke	29	13.8	20.8	*	17.2	27.1	*	24.1	31.8	*
Hip Fracture	11	18.2	6.2	*	18.2	11.4	*	27.3	14.6	*
Sepsis	4	25.0	33.2	*	25.0	37.8	*	25.0	43.2	*
PROCEDURE:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	50.0	4.4	*	50.0	8.6	*	50.0	11.2	*
Open Reduction of Hip Fracture	8	25.0	5.3	*	25.0	10.1	*	37.5	13.1	*
Prostatectomy	4	0.0	0.3	*	0.0	0.7	*	0.0	1.2	*
Cholecystectomy	13	0.0	1.0	*	0.0	2.0	*	0.0	2.9	*
Hysterectomy	6	0.0	0.2	*	0.0	0.4	*	0.0	0.5	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	550	12.7	10.8	2.1	17.8	15.4	2.5	20.0	19.1	2.0
CONDITIONS:										
Acute Myocardial Infarction	18	33.3	37.3	*	44.4	40.8	*	50.0	45.2	*
Congestive Heart Failure	37	24.3	14.1	*	32.4	21.3	*	35.1	27.6	*
Pneumonia/Influenza	42	26.2	18.9	*	26.2	25.3	*	28.6	30.5	*
Chronic Obstructive Pulmonary Disease	10	0.0	13.5	*	10.0	20.0	*	20.0	24.9	*
Transient Cerebral Ischemia	12	0.0	3.0	*	8.3	6.7	*	8.3	10.6	*
Stroke	24	37.5	22.7	*	41.7	29.1	*	45.8	33.9	*
Hip Fracture	12	0.0	7.7	*	0.0	14.6	*	0.0	19.0	*
Sepsis	5	40.0	37.8	*	40.0	46.0	*	60.0	53.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	6.9	*	0.0	13.3	*	0.0	17.6	*
Open Reduction of Hip Fracture	8	0.0	7.5	*	0.0	14.7	*	0.0	19.5	*
Prostatectomy	5	0.0	4.2	*	0.0	9.0	*	0.0	12.9	*
Cholecystectomy	8	0.0	1.3	*	0.0	2.4	*	0.0	3.2	*
Hysterectomy	7	0.0	1.1	*	14.3	2.8	*	14.3	4.7	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

DUNN MEMORIAL HOSPITAL

1616 23rd Street
Bedford, IN 47421

Medicare Provider Number: 150049

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	732	10.0	9.2	1.4	12.6	13.8	1.6	16.9	17.5	1.7
CONDITIONS:										
Acute Myocardial Infarction	17	41.2	29.5	*	41.2	32.3	*	47.1	35.6	*
Congestive Heart Failure	53	20.8	14.6	6.7	24.5	22.3	6.7	32.1	28.8	6.6
Pneumonia/Influenza	55	18.2	17.1	5.4	23.6	23.5	8.0	32.7	28.6	8.7
Chronic Obstructive Pulmonary Disease	27	0.0	5.7	*	0.0	10.1	*	3.7	14.2	*
Transient Cerebral Ischemia	6	0.0	2.7	*	0.0	6.5	*	0.0	10.6	*
Stroke	26	26.9	28.8	*	26.9	34.8	*	34.6	39.4	*
Hip Fracture	12	16.7	5.8	*	16.7	10.6	*	25.0	14.3	*
Sepsis	5	20.0	37.0	*	20.0	44.7	*	20.0	50.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	4.2	*	0.0	9.4	*	0.0	14.0	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	8.7	*	0.0	14.6	*	25.0	18.6	*
Open Reduction of Hip Fracture	7	14.3	5.4	*	14.3	10.6	*	14.3	14.6	*
Prostatectomy	10	0.0	1.6	*	0.0	3.9	*	20.0	6.4	*
Cholecystectomy	16	0.0	3.6	*	0.0	6.9	*	6.3	9.5	*
Hysterectomy	4	0.0	0.6	*	0.0	1.3	*	0.0	1.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	137
Occupancy Rate	37
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	24
Percent of Physicians Board Certified Specialists	67
Medical Residents/Interns	0
Registered Nurses	58
Licensed Practical Nurses	17

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

DUNN MEMORIAL HOSPITAL

Medicare Provider Number: 150049

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	742	9.2	9.4	1.1	14.7	14.1	1.7	18.5	18.0	2.5
CONDITIONS:										
Acute Myocardial Infarction	19	68.4	36.5	*	73.7	40.4	*	73.7	44.3	*
Congestive Heart Failure	34	17.6	15.9	*	20.6	25.6	*	35.3	33.3	*
Pneumonia/Influenza	51	17.6	17.8	6.6	29.4	24.3	10.4	35.3	29.4	12.3
Chronic Obstructive Pulmonary Disease	25	8.0	10.0	*	8.0	17.6	*	16.0	23.8	*
Transient Cerebral Ischemia	9	0.0	1.6	*	0.0	3.6	*	11.1	5.7	*
Stroke	33	15.2	26.3	*	18.2	32.5	*	21.2	37.2	*
Hip Fracture	6	0.0	5.5	*	0.0	10.0	*	0.0	13.1	*
Sepsis	5	40.0	28.0	*	40.0	41.0	*	40.0	49.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	2.0	*	0.0	4.5	*	0.0	7.3	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	2.7	*	0.0	5.3	*	0.0	7.0	*
Open Reduction of Hip Fracture	4	0.0	6.0	*	0.0	11.4	*	0.0	15.0	*
Prostatectomy	5	0.0	0.9	*	0.0	2.4	*	0.0	4.2	*
Cholecystectomy	18	5.6	2.2	*	5.6	3.8	*	5.6	4.7	*
Hysterectomy	8	12.5	1.4	*	12.5	2.5	*	12.5	3.5	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	738	8.9	8.5	1.0	12.9	13.0	1.3	16.4	16.8	1.4
CONDITIONS:										
Acute Myocardial Infarction	16	31.3	29.5	*	43.8	32.5	*	43.8	36.3	*
Congestive Heart Failure	46	10.9	16.6	*	15.2	25.7	*	26.1	33.2	*
Pneumonia/Influenza	54	18.5	15.2	8.6	27.8	21.0	11.2	33.3	25.8	12.7
Chronic Obstructive Pulmonary Disease	24	12.5	10.3	*	20.8	17.2	*	25.0	22.7	*
Transient Cerebral Ischemia	15	0.0	2.2	*	6.7	4.8	*	6.7	7.5	*
Stroke	27	14.8	27.4	*	25.9	34.3	*	33.3	39.2	*
Hip Fracture	16	18.8	6.4	*	18.8	11.5	*	25.0	15.0	*
Sepsis	4	0.0	24.8	*	25.0	32.5	*	25.0	38.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	4.8	*	0.0	8.4	*	0.0	11.1	*
Open Reduction of Hip Fracture	11	27.3	6.1	*	27.3	11.9	*	36.4	15.7	*
Prostatectomy	8	0.0	5.4	*	0.0	12.2	*	0.0	18.3	*
Cholecystectomy	18	5.6	3.2	*	5.6	5.4	*	5.6	6.7	*
Hysterectomy	5	0.0	0.6	*	0.0	1.5	*	0.0	2.4	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

ELKHART GENERAL HOSPITAL

600 East Boulevard
Elkhart, IN 46514

Medicare Provider Number: 150018

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,429	8.8	9.1	0.7	13.8	13.6	1.1	16.7	17.2	1.1
CONDITIONS:										
Acute Myocardial Infarction	86	30.2	28.2	6.5	34.9	31.8	5.7	34.9	35.5	5.2
Congestive Heart Failure	166	18.1	14.9	3.2	27.7	23.0	4.3	32.5	29.9	3.8
Pneumonia/Influenza	73	15.1	16.5	4.6	19.2	22.6	5.8	27.4	27.4	5.2
Chronic Obstructive Pulmonary Disease	53	9.4	7.9	4.1	15.1	13.7	5.2	17.0	18.6	5.7
Transient Cerebral Ischemia	25	4.0	1.8	*	12.0	4.1	*	16.0	6.7	*
Stroke	117	21.4	19.3	4.2	25.6	26.0	4.1	29.9	30.3	4.3
Hip Fracture	72	6.9	5.8	3.5	15.3	10.5	6.2	16.7	13.7	7.4
Sepsis	13	23.1	26.5	*	38.5	36.0	*	53.8	43.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	4.0	*	0.0	8.0	*	0.0	11.4	*
Carotid Endarterectomy	6	0.0	1.1	*	0.0	2.0	*	0.0	3.0	*
Hip Replacement/Reconstruction	41	7.3	3.8	*	12.2	7.0	*	12.2	9.1	*
Open Reduction of Hip Fracture	43	4.7	5.4	*	14.0	9.9	*	16.3	13.1	*
Prostatectomy	114	0.9	0.6	0.8	2.6	1.4	1.6	3.5	2.3	2.3
Cholecystectomy	50	6.0	2.2	*	6.0	3.6	*	8.0	4.5	*
Hysterectomy	25	0.0	0.3	*	0.0	0.6	*	0.0	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	367
Occupancy Rate	57
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	139
Percent of Physicians Board Certified Specialists	81
Medical Residents/Interns	(Not Available)
Registered Nurses	(Not Available)
Licensed Practical Nurses	(Not Available)

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

ELKHART GENERAL HOSPITAL

Medicare Provider Number: 150018

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,394	8.0	8.5	0.8	13.0	12.8	0.7	16.7	16.3	0.9
CONDITIONS:										
Acute Myocardial Infarction	92	22.8	26.6	7.5	26.1	30.0	7.9	29.3	33.5	7.3
Congestive Heart Failure	148	12.8	15.7	4.0	28.4	23.7	4.7	32.4	30.4	4.1
Pneumonia/Influenza	67	10.4	16.7	5.7	16.4	22.6	6.3	22.4	27.3	5.9
Chronic Obstructive Pulmonary Disease	48	2.1	9.0	*	14.6	15.5	*	25.0	20.9	*
Transient Cerebral Ischemia	16	6.3	1.9	*	12.5	4.1	*	12.5	6.4	*
Stroke	101	19.8	19.1	6.4	30.7	25.9	7.5	33.7	30.4	7.5
Hip Fracture	76	5.3	6.7	4.0	7.9	12.4	6.4	11.8	16.1	7.7
Sepsis	17	23.5	27.8	*	35.3	34.6	*	41.2	40.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	14.3	9.1	*	28.6	13.4	*	28.6	17.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	60	6.7	3.9	3.4	8.3	7.6	4.1	10.0	10.1	4.6
Open Reduction of Hip Fracture	38	5.3	6.2	*	7.9	12.0	*	15.8	15.9	*
Prostatectomy	129	0.0	0.7	1.2	0.8	1.7	1.9	3.9	2.7	2.1
Cholecystectomy	40	2.5	2.6	*	2.5	4.7	*	5.0	6.2	*
Hysterectomy	26	0.0	0.5	*	3.8	0.9	*	7.7	1.4	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,362	7.5	8.8	0.9	12.6	13.2	0.8	16.1	16.7	0.9
CONDITIONS:										
Acute Myocardial Infarction	99	26.3	27.2	4.6	32.3	30.4	4.8	34.3	33.7	4.9
Congestive Heart Failure	144	10.4	15.9	5.8	21.5	23.6	6.1	28.5	30.2	4.0
Pneumonia/Influenza	79	11.4	15.1	5.5	13.9	20.4	7.0	21.5	24.9	6.3
Chronic Obstructive Pulmonary Disease	48	2.1	8.6	*	6.3	14.6	*	8.3	19.5	*
Transient Cerebral Ischemia	27	0.0	2.0	*	0.0	4.4	*	3.7	7.1	*
Stroke	101	21.8	20.5	5.6	30.7	27.3	7.6	32.7	31.9	4.9
Hip Fracture	57	5.3	6.9	4.1	7.0	12.5	7.5	12.3	16.1	7.5
Sepsis	16	25.0	32.1	*	43.8	38.6	*	50.0	44.7	*
PROCEDURES:										
Angioplasty	1	0.0	1.4	*	0.0	2.2	*	0.0	3.4	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	16	6.3	4.3	*	12.5	7.8	*	18.8	10.8	*
Carotid Endarterectomy	2	0.0	1.3	*	0.0	2.2	*	0.0	3.1	*
Hip Replacement/Reconstruction	34	0.0	3.0	*	2.9	5.8	*	5.9	7.7	*
Open Reduction of Hip Fracture	32	6.3	6.9	*	6.3	12.9	*	12.5	16.8	*
Prostatectomy	118	0.0	0.6	0.9	0.0	1.5	1.7	1.7	2.5	1.9
Cholecystectomy	52	3.8	3.2	3.6	5.8	5.9	4.0	7.7	7.8	4.0
Hysterectomy	22	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FAYETTE MEMORIAL HOSPITAL ASSOCIATION

1941 Virginia Ave
Connersville, IN 47331

Medicare Provider Number: 150064

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	861	8.9	9.7	1.8	13.0	14.3	2.0	16.8	18.0	1.9
CONDITIONS:										
Acute Myocardial Infarction	28	32.1	32.8	*	39.3	36.4	*	46.4	40.0	*
Congestive Heart Failure	40	10.0	13.2	*	10.0	20.8	*	17.5	27.3	*
Pneumonia/Influenza	71	12.7	14.5	5.0	16.9	20.2	5.9	22.5	24.3	5.6
Chronic Obstructive Pulmonary Disease	18	0.0	5.4	*	11.1	10.1	*	16.7	14.6	*
Transient Cerebral Ischemia	24	0.0	1.8	*	0.0	4.1	*	0.0	6.6	*
Stroke	32	21.9	21.4	*	28.1	28.5	*	31.3	33.2	*
Hip Fracture	14	14.3	5.1	*	14.3	9.1	*	21.4	11.9	*
Sepsis	9	33.3	25.3	*	44.4	33.5	*	44.4	38.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	1.0	*	0.0	2.1	*	0.0	3.2	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	8	12.5	6.4	*	25.0	11.0	*	37.5	14.2	*
Open Reduction of Hip Fracture	5	20.0	4.1	*	20.0	8.0	*	20.0	10.8	*
Prostatectomy	14	7.1	0.8	*	7.1	2.1	*	14.3	3.7	*
Cholecystectomy	9	0.0	2.7	*	0.0	5.1	*	11.1	6.9	*
Hysterectomy	2	0.0	0.9	*	0.0	2.3	*	0.0	4.1	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	93
Occupancy Rate	43
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	24
Percent of Physicians Board Certified Specialists	71
Medical Residents/Interns	0
Registered Nurses	66
Licensed Practical Nurses	10

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

FAYETTE MEMORIAL HOSPITAL ASSOCIATION

Medicare Provider Number: 150064

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	791	9.2	9.3	1.0	14.8	14.1	1.5	19.3	18.0	2.1
CONDITIONS:										
Acute Myocardial Infarction	29	27.6	28.6	*	27.6	32.3	*	31.0	36.2	*
Congestive Heart Failure	52	17.3	16.4	6.9	34.6	24.6	9.5	42.3	31.3	10.8
Pneumonia/Influenza	75	17.3	15.9	4.4	26.7	21.5	6.8	29.3	26.0	6.6
Chronic Obstructive Pulmonary Disease	13	0.0	6.9	*	7.7	12.0	*	23.1	16.3	*
Transient Cerebral Ischemia	21	0.0	1.9	*	0.0	4.2	*	4.8	6.6	*
Stroke	21	23.8	21.0	*	28.6	27.5	*	33.3	32.2	*
Hip Fracture	6	0.0	4.1	*	0.0	7.9	*	0.0	10.7	*
Sepsis	9	22.2	28.9	*	33.3	36.2	*	33.3	42.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	5	0.0	3.5	*	0.0	7.1	*	0.0	10.6	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	0.0	3.9	*	0.0	7.8	*	0.0	10.4	*
Open Reduction of Hip Fracture	2	0.0	4.3	*	0.0	9.0	*	0.0	12.6	*
Prostatectomy	14	0.0	0.6	*	0.0	1.6	*	7.1	2.8	*
Cholecystectomy	9	0.0	1.2	*	0.0	2.3	*	11.1	3.1	*
Hysterectomy	3	0.0	0.1	*	0.0	0.3	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	769	10.7	9.7	1.7	14.6	14.3	1.4	17.8	18.1	1.4
CONDITIONS:										
Acute Myocardial Infarction	23	26.1	32.8	*	26.1	36.3	*	39.1	40.2	*
Congestive Heart Failure	62	12.9	17.3	5.9	22.6	26.1	7.0	25.8	33.5	10.8
Pneumonia/Influenza	69	13.0	16.6	6.9	17.4	22.7	7.4	24.6	27.5	6.0
Chronic Obstructive Pulmonary Disease	14	21.4	13.9	*	21.4	22.9	*	28.6	29.4	*
Transient Cerebral Ischemia	23	4.3	1.8	*	8.7	3.8	*	13.0	6.1	*
Stroke	19	42.1	20.6	*	42.1	26.6	*	42.1	30.9	*
Hip Fracture	16	12.5	4.8	*	12.5	9.1	*	12.5	12.1	*
Sepsis	10	0.0	22.3	*	0.0	28.9	*	0.0	34.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	1.6	*	0.0	3.6	*	0.0	5.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	6	0.0	3.0	*	0.0	6.1	*	0.0	8.4	*
Open Reduction of Hip Fracture	8	25.0	5.7	*	25.0	10.9	*	25.0	14.6	*
Prostatectomy	21	4.8	0.9	*	9.5	2.1	*	9.5	3.7	*
Cholecystectomy	15	0.0	2.4	*	6.7	4.3	*	6.7	5.4	*
Hysterectomy	6	0.0	0.5	*	0.0	0.9	*	16.7	1.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FLOYD MEMORIAL HOSPITAL

1850 State Street
New Albany, IN 47150

Medicare Provider Number: 150044

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,386	9.9	8.7	1.2	14.0	13.3	1.1	17.9	17.0	1.4
CONDITIONS:										
Acute Myocardial Infarction	60	31.7	27.9	8.3	33.3	31.0	9.1	38.3	34.2	9.4
Congestive Heart Failure	111	17.1	16.3	3.7	24.3	24.9	4.1	31.5	31.8	4.4
Pneumonia/Influenza	119	21.0	16.5	5.1	28.6	22.5	5.4	31.9	27.0	6.4
Chronic Obstructive Pulmonary Disease	11	0.0	9.2	*	0.0	14.1	*	9.1	18.4	*
Transient Cerebral Ischemia	31	3.2	1.8	*	6.5	3.7	*	9.7	5.8	*
Stroke	81	18.5	21.2	5.5	22.2	27.1	6.5	28.4	31.4	5.8
Hip Fracture	59	10.2	6.4	4.8	13.6	11.4	5.3	16.9	14.7	5.5
Sepsis	25	44.0	28.5	*	52.0	36.1	*	56.0	42.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	12	0.0	3.1	*	0.0	6.7	*	8.3	10.3	*
Carotid Endarterectomy	19	0.0	1.9	*	5.3	3.5	*	5.3	5.1	*
Hip Replacement/Reconstruction	35	5.7	4.4	*	5.7	8.0	*	11.4	10.3	*
Open Reduction of Hip Fracture	24	8.3	5.3	*	12.5	10.0	*	12.5	13.3	*
Prostatectomy	42	2.4	0.8	*	7.1	1.9	*	7.1	3.1	*
Cholecystectomy	47	2.1	1.9	*	4.3	3.3	*	4.3	4.3	*
Hysterectomy	13	0.0	0.3	*	0.0	0.5	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	266
Occupancy Rate	54
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	90
Percent of Physicians Board Certified Specialists	67
Medical Residents/Interns	0
Registered Nurses	173
Licensed Practical Nurses	26

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

FLOYD MEMORIAL HOSPITAL

Medicare Provider Number: 150044

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,321	10.3	8.8	0.8	15.5	13.5	1.1	18.9	17.2	1.1
CONDITIONS:										
Acute Myocardial Infarction	66	25.8	28.4	7.5	31.8	31.4	8.1	31.8	34.7	6.6
Congestive Heart Failure	97	21.6	16.6	5.8	32.0	25.4	5.5	37.1	32.4	5.7
Pneumonia/Influenza	128	21.9	19.5	5.8	31.3	26.5	7.4	35.2	31.5	7.2
Chronic Obstructive Pulmonary Disease	6	16.7	11.9	*	16.7	18.0	*	16.7	23.1	*
Transient Cerebral Ischemia	38	7.9	2.5	*	10.5	5.2	*	18.4	8.1	*
Stroke	87	28.7	21.1	9.5	32.2	28.2	9.0	37.9	33.0	9.4
Hip Fracture	56	8.9	7.3	4.3	17.9	13.1	5.9	26.8	16.6	8.4
Sepsis	11	36.4	30.2	*	36.4	38.3	*	36.4	44.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	13	0.0	5.9	*	7.7	10.7	*	15.4	14.9	*
Carotid Endarterectomy	11	0.0	1.3	*	0.0	2.4	*	0.0	3.6	*
Hip Replacement/Reconstruction	25	0.0	4.0	*	4.0	7.7	*	12.0	10.2	*
Open Reduction of Hip Fracture	27	14.8	7.3	*	22.2	13.4	*	29.6	17.4	*
Prostatectomy	59	0.0	1.0	2.0	1.7	2.4	3.1	5.1	4.1	3.6
Cholecystectomy	51	2.0	1.8	2.1	3.9	3.1	2.6	3.9	4.1	2.8
Hysterectomy	20	5.0	0.4	*	5.0	0.9	*	5.0	1.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,160	9.6	8.4	0.8	14.3	13.2	0.9	17.1	17.0	1.0
CONDITIONS:										
Acute Myocardial Infarction	54	35.2	27.9	11.0	37.0	31.6	11.2	38.9	35.1	11.4
Congestive Heart Failure	116	22.4	17.6	6.3	32.8	26.4	5.9	38.8	33.6	5.9
Pneumonia/Influenza	101	21.8	16.3	7.8	27.7	22.4	9.1	31.7	27.1	7.8
Chronic Obstructive Pulmonary Disease	26	26.9	12.5	*	30.8	20.3	*	34.6	26.4	*
Transient Cerebral Ischemia	39	2.6	2.0	*	5.1	4.0	*	12.8	6.2	*
Stroke	66	27.3	21.9	7.4	28.8	28.5	7.4	28.8	33.0	9.7
Hip Fracture	57	3.5	6.7	4.6	10.5	12.0	5.2	15.8	15.3	4.8
Sepsis	11	45.5	27.4	*	45.5	34.8	*	54.5	41.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	23	0.0	2.9	*	0.0	6.1	*	8.7	9.3	*
Carotid Endarterectomy	12	8.3	1.8	*	8.3	3.2	*	8.3	4.6	*
Hip Replacement/Reconstruction	32	0.0	4.5	*	3.1	8.4	*	9.4	10.8	*
Open Reduction of Hip Fracture	21	9.5	7.1	*	9.5	13.2	*	14.3	17.0	*
Prostatectomy	62	0.0	1.6	*	0.0	4.0	*	0.0	6.8	*
Cholecystectomy	54	1.9	3.3	2.6	1.9	5.7	3.7	1.9	7.3	4.4
Hysterectomy	15	0.0	1.4	*	6.7	3.5	*	13.3	5.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

57.1

Floyd
Memorial
Hospital

January 11, 1991

Mrs. Sandra Kappert
Health Standards and Quality Bureau
Health Care Financing Administration
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Mrs. Kappert,

We are pleased to have the opportunity to review and comment on the mortality data released by HCFA for the period October 1, 1988 through September 30, 1989. While this data does not in itself measure the quality of care provided, it does supply an additional mechanism for further education and enhancement of the medical care rendered at our institution.

In our study of the HCFA mortality data, we have found that many factors remain hidden due to the analytical nature of the report. One important fact is that a large number of these patients expired 180 days or more after discharge from our facility, therefore the circumstances surrounding the patients' deaths were beyond our control. Other factors include:

* The pneumonia category included many who were admitted to our facility from nursing homes in an extremely debilitated state.

* The average age of patients in the categories of hip fracture and myocardial infarction was 82 years, most of which had other existing medical problems.

Even though the above factors are excluded from the numerical data, we do acknowledge and appreciate the importance of the report as a whole and see it as an effective tool for continuous improvement.

Floyd Memorial Hospital is a 270-bed acute care facility offering a full range of services including rehabilitative, major orthopedic care, oncology services with therapeutic radiology, as well as general medicine ad surgery. We have recently undergone

VHA.
Member of Voluntary Hospitals of America, Inc.

1850 State Street, New Albany, Indiana 47150 (812)944-7701

survey by the JCAHO and have received a full three year accreditation. The Quality Assurance Program is very active both in Medical Staff Services and ancillary services and provides an ongoing system for monitoring, feedback, and followup. A major portion of this program is devoted to the study of all deaths within our institution.

Finally, we believe that our patient care evaluation systems are firmly in place and supports our efforts in the achievement of quality medical care at FMH.

Thank you for the opportunity to respond to this important issue.

Sincerely,

Bryant R Hanson

Bryant R. Hanson
President
FLOYD MEMORIAL HOSPITAL

BRH:kw

GEORGE ADE MEMORIAL HOSPITAL

State Hwy 16
Brook, IN 47922

Medicare Provider Number: 150081

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	28	7.1	11.5	*	10.7	16.9	*	14.3	21.6	*
CONDITIONS:										
Acute Myocardial Infarction	1	100.0	68.1	*	100.0	72.8	*	100.0	77.5	*
Congestive Heart Failure	3	0.0	19.7	*	0.0	31.4	*	0.0	40.3	*
Pneumonia/Influenza	2	0.0	20.9	*	0.0	29.3	*	50.0	35.9	*
Chronic Obstructive Pulmonary Disease	2	50.0	7.6	*	50.0	17.0	*	50.0	24.7	*
Transient Cerebral Ischemia	1	0.0	2.5	*	0.0	5.4	*	0.0	8.7	*
Stroke	1	0.0	13.8	*	0.0	18.4	*	0.0	22.4	*
Hip Fracture	0									
Sepsis	1	0.0	39.9	*	0.0	45.0	*	0.0	50.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	1	0.0	0.3	*	0.0	0.8	*	0.0	1.3	*
Cholecystectomy	0									
Hysterectomy	0									

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1989

Total Beds	40
Ownership/Control	Local Government

STAFFING:

Medical Residents/Interns	0
Registered Nurses	8
Licensed Practical Nurses	5

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	No
Hospice	No
Intensive Care Unit	No
Organ Transplant	No
Rehabilitation	No
Shock Trauma	No

** **Not used in calculating hospital mortality rates.**

GEORGE ADE MEMORIAL HOSPITAL

Medicare Provider Number: 150081

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	108	13.0	11.2	5.1	18.5	16.4	4.0	21.3	20.5	4.0
CONDITIONS:										
Acute Myocardial Infarction	2	50.0	33.1	*	50.0	36.2	*	50.0	40.5	*
Congestive Heart Failure	15	33.3	22.9	*	40.0	33.7	*	53.3	41.7	*
Pneumonia/Influenza	7	0.0	15.5	*	0.0	20.9	*	0.0	25.4	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	6	33.3	19.8	*	33.3	26.2	*	33.3	31.1	*
Hip Fracture	6	16.7	6.8	*	16.7	12.3	*	16.7	16.1	*
Sepsis	2	0.0	31.6	*	0.0	37.0	*	0.0	43.4	*
PROCEDURE:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	6	16.7	5.9	*	16.7	11.2	*	16.7	15.0	*
Prostatectomy	4	0.0	0.8	*	0.0	2.1	*	0.0	3.7	*
Cholecystectomy	2	0.0	2.0	*	0.0	4.3	*	50.0	6.8	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	131	14.5	11.4	4.7	17.6	16.2	4.4	21.4	20.2	3.7
CONDITIONS:										
Acute Myocardial Infarction	3	33.3	34.5	*	33.3	39.3	*	33.3	43.9	*
Congestive Heart Failure	14	28.6	15.7	*	35.7	24.1	*	42.9	31.1	*
Pneumonia/Influenza	5	40.0	14.1	*	40.0	18.5	*	40.0	22.6	*
Chronic Obstructive Pulmonary Disease	1	0.0	18.5	*	0.0	31.3	*	0.0	39.7	*
Transient Cerebral Ischemia	2	0.0	1.7	*	0.0	3.4	*	0.0	5.3	*
Stroke	7	28.6	27.7	*	28.6	33.8	*	28.6	38.6	*
Hip Fracture	4	25.0	5.3	*	25.0	10.0	*	25.0	13.5	*
Sepsis	3	0.0	41.4	*	0.0	48.6	*	33.3	56.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	4	25.0	4.6	*	25.0	9.1	*	25.0	12.5	*
Prostatectomy	3	0.0	0.4	*	0.0	0.8	*	0.0	1.4	*
Cholecystectomy	2	50.0	1.1	*	50.0	2.4	*	50.0	3.6	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

GIBSON GENERAL HOSPITAL

1808 Sherman Dr
Princeton, IN 47670

Medicare Provider Number: 150020

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	553	9.4	9.0	1.4	15.2	13.8	2.4	19.2	17.6	3.1
CONDITIONS:										
Acute Myocardial Infarction	19	31.6	23.7	*	36.8	26.7	*	36.8	30.0	*
Congestive Heart Failure	52	15.4	14.3	5.4	25.0	22.5	6.1	32.7	29.5	7.9
Pneumonia/Influenza	36	8.3	13.4	*	16.7	18.5	*	19.4	23.0	*
Chronic Obstructive Pulmonary Disease	13	7.7	5.7	*	7.7	10.3	*	7.7	14.6	*
Transient Cerebral Ischemia	10	0.0	1.7	*	10.0	3.7	*	10.0	6.0	*
Stroke	25	12.0	18.7	*	24.0	24.9	*	36.0	29.5	*
Hip Fracture	11	0.0	4.9	*	18.2	9.1	*	18.2	12.3	*
Sepsis	10	30.0	23.0	*	50.0	31.2	*	60.0	37.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	4.6	*	25.0	8.8	*	25.0	11.7	*
Open Reduction of Hip Fracture	4	0.0	3.2	*	25.0	6.4	*	25.0	9.2	*
Prostatectomy	8	0.0	1.0	*	0.0	2.4	*	0.0	4.0	*
Cholecystectomy	9	0.0	2.0	*	0.0	3.5	*	11.1	4.9	*
Hysterectomy	1	0.0	0.3	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	109
Occupancy Rate	64
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	13
Percent of Physicians Board Certified Specialists	46
Medical Residents/Interns	(Not Available)
Registered Nurses	(Not Available)
Licensed Practical Nurses	(Not Available)

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	Yes
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

GIBSON GENERAL HOSPITAL

Medicare Provider Number: 150020

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	520	10.8	9.0	1.9	15.4	13.4	2.3	17.9	17.2	2.0
CONDITIONS:										
Acute Myocardial Infarction	25	32.0	26.1	*	32.0	29.6	*	36.0	33.6	*
Congestive Heart Failure	35	28.6	13.5	*	34.3	21.1	*	34.3	27.5	*
Pneumonia/Influenza	32	12.5	16.0	*	18.8	21.8	*	21.9	26.1	*
Chronic Obstructive Pulmonary Disease	19	0.0	4.2	*	0.0	8.3	*	0.0	12.0	*
Transient Cerebral Ischemia	6	0.0	2.0	*	0.0	4.4	*	16.7	7.0	*
Stroke	20	25.0	19.3	*	35.0	25.9	*	40.0	30.7	*
Hip Fracture	11	0.0	5.0	*	9.1	9.8	*	9.1	13.2	*
Sepsis	14	14.3	21.2	*	21.4	28.3	*	21.4	34.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	50.0	12.8	*	50.0	16.7	*	50.0	20.2	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	0.0	4.0	*	20.0	9.3	*	20.0	14.1	*
Open Reduction of Hip Fracture	3	0.0	5.5	*	33.3	10.8	*	33.3	14.3	*
Prostatectomy	14	0.0	1.2	*	0.0	3.0	*	0.0	5.1	*
Cholecystectomy	5	0.0	2.3	*	0.0	4.2	*	0.0	5.6	*
Hysterectomy	1	0.0	0.9	*	0.0	1.5	*	0.0	1.8	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	492	10.0	8.7	2.6	15.2	13.6	2.8	18.9	17.6	2.6
CONDITIONS:										
Acute Myocardial Infarction	18	38.9	23.7	*	38.9	26.6	*	44.4	29.9	*
Congestive Heart Failure	25	8.0	12.5	*	28.0	19.5	*	32.0	25.6	*
Pneumonia/Influenza	29	13.8	16.4	*	24.1	22.5	*	34.5	27.4	*
Chronic Obstructive Pulmonary Disease	7	0.0	8.0	*	14.3	14.1	*	14.3	19.1	*
Transient Cerebral Ischemia	8	0.0	2.0	*	0.0	4.5	*	0.0	7.4	*
Stroke	30	33.3	17.4	*	43.3	23.1	*	43.3	27.6	*
Hip Fracture	12	0.0	6.6	*	8.3	12.2	*	8.3	16.0	*
Sepsis	2	0.0	25.2	*	0.0	32.2	*	0.0	37.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	9	0.0	5.9	*	11.1	11.7	*	11.1	15.7	*
Prostatectomy	5	0.0	0.9	*	0.0	2.1	*	0.0	3.3	*
Cholecystectomy	3	0.0	1.3	*	0.0	2.2	*	0.0	2.9	*
Hysterectomy	5	0.0	1.4	*	0.0	2.8	*	20.0	4.3	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

GOOD SAMARITAN HOSPITAL

520 South 7th Street
Vincennes, IN 47591

Medicare Provider Number: 150042

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,586	8.6	8.6	0.9	13.8	13.1	1.0	17.1	16.7	1.0
CONDITIONS:										
Acute Myocardial Infarction	76	46.1	30.7	7.1	52.6	33.8	7.8	56.6	37.2	8.3
Congestive Heart Failure	135	19.3	14.3	4.1	27.4	22.4	4.7	34.8	29.1	6.3
Pneumonia/Influenza	134	10.4	15.7	3.9	13.4	21.3	4.9	16.4	25.8	5.8
Chronic Obstructive Pulmonary Disease	15	6.7	4.1	*	13.3	8.5	*	13.3	12.7	*
Transient Cerebral Ischemia	69	2.9	1.9	2.0	7.2	4.2	3.6	8.7	6.8	3.5
Stroke	106	17.0	20.4	6.1	21.7	27.1	8.3	25.5	31.6	10.0
Hip Fracture	79	10.1	5.9	4.3	17.7	10.9	5.6	19.0	14.3	5.1
Sepsis	44	29.5	30.1	*	47.7	39.7	*	54.5	46.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	23	0.0	3.6	*	4.3	7.3	*	8.7	10.7	*
Carotid Endarterectomy	8	0.0	2.0	*	12.5	3.9	*	12.5	5.9	*
Hip Replacement/Reconstruction	55	5.5	3.0	3.6	12.7	5.8	6.3	14.5	7.9	7.5
Open Reduction of Hip Fracture	43	7.0	4.9	*	14.0	9.4	*	14.0	12.5	*
Prostatectomy	104	1.0	1.1	1.0	1.9	2.5	1.7	2.9	4.0	2.4
Cholecystectomy	49	0.0	2.2	*	6.1	3.8	*	6.1	5.1	*
Hysterectomy	18	5.6	0.6	*	5.6	1.2	*	5.6	1.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	263
Occupancy Rate	70
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	84
Percent of Physicians Board Certified Specialists	68
Medical Residents/Interns	0
Registered Nurses	256
Licensed Practical Nurses	19

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

GOOD SAMARITAN HOSPITAL

Medicare Provider Number: 150042

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,659	9.0	9.0	0.6	13.7	13.9	0.8	16.6	17.6	1.1
CONDITIONS:										
Acute Myocardial Infarction	69	40.6	29.8	12.2	42.0	33.4	12.1	46.4	37.2	11.6
Congestive Heart Failure	159	19.5	16.0	4.3	30.8	24.2	7.5	35.2	30.8	5.8
Pneumonia/Influenza	149	14.1	19.4	5.8	22.1	25.9	6.7	24.2	30.7	7.2
Chronic Obstructive Pulmonary Disease	22	0.0	3.8	*	0.0	7.8	*	13.6	11.5	*
Transient Cerebral Ischemia	63	0.0	2.2	4.4	6.3	4.8	3.4	7.9	7.4	3.3
Stroke	87	26.4	19.4	7.7	28.7	25.8	7.7	35.6	30.3	8.5
Hip Fracture	74	9.5	6.7	3.8	12.2	12.1	4.4	16.2	15.6	4.5
Sepsis	41	36.6	28.8	*	43.9	37.9	*	48.8	44.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	0.0	4.2	*	0.0	7.2	*	0.0	10.1	*
Carotid Endarterectomy	18	5.6	1.6	*	5.6	3.1	*	5.6	4.5	*
Hip Replacement/Reconstruction	51	3.9	2.1	2.5	5.9	4.2	3.7	7.8	5.7	4.9
Open Reduction of Hip Fracture	51	9.8	6.4	4.7	9.8	12.0	5.0	13.7	15.6	5.4
Prostatectomy	138	0.7	1.3	1.1	0.7	3.0	2.2	2.2	4.9	3.1
Cholecystectomy	52	0.0	3.4	4.1	0.0	5.6	6.3	1.9	6.8	5.7
Hysterectomy	16	0.0	1.1	*	0.0	2.3	*	0.0	3.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,519	8.0	8.5	0.8	12.2	13.3	1.0	15.4	17.0	1.1
CONDITIONS:										
Acute Myocardial Infarction	68	29.4	26.4	9.0	33.8	29.7	8.4	35.3	33.1	8.1
Congestive Heart Failure	114	17.5	17.1	3.8	19.3	25.9	5.3	28.1	33.0	5.7
Pneumonia/Influenza	92	19.6	18.0	4.2	23.9	24.2	4.5	25.0	29.1	5.5
Chronic Obstructive Pulmonary Disease	10	30.0	13.5	*	30.0	22.5	*	50.0	29.0	*
Transient Cerebral Ischemia	69	0.0	2.0	2.8	1.4	4.3	4.1	5.8	6.6	3.5
Stroke	78	16.7	23.5	5.6	21.8	30.8	6.5	21.8	35.5	7.9
Hip Fracture	87	4.6	6.0	4.2	6.9	11.1	5.7	11.5	14.6	5.5
Sepsis	27	14.8	27.0	*	25.9	36.0	*	25.9	41.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	9	11.1	12.0	*	11.1	18.8	*	11.1	23.7	*
Carotid Endarterectomy	14	0.0	1.4	*	0.0	2.5	*	0.0	3.6	*
Hip Replacement/Reconstruction	62	1.6	2.8	3.0	1.6	5.5	5.7	3.2	7.4	7.1
Open Reduction of Hip Fracture	45	2.2	5.4	*	4.4	10.5	*	8.9	13.9	*
Prostatectomy	117	2.6	1.2	2.0	4.3	2.9	2.8	5.1	4.8	3.2
Cholecystectomy	44	0.0	3.4	*	4.5	6.3	*	11.4	8.5	*
Hysterectomy	17	0.0	0.5	*	5.9	1.1	*	5.9	1.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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Good Samaritan Hospital
520 South Seventh Street
Vincennes, Indiana 47591
(812) 882-5220

January 4, 1991

Mrs. Sandra Kappert
Health Care Financing Administration
Health Standards & Quality Bureau
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Mrs. Kappert:

The mortality information about Medicare patients treated at Good Samaritan Hospital in 1989 has been carefully reviewed. In general, it is felt the data is accurate.

Only one instance was found where a patient was listed on the report in error. Of note is that this same patient appeared on our 1988 Mortality Listing.

> [redacted] - This patient was never an inpatient at our facility. Our hospital received payment from Medicare for this patient, but later made an adjustment upon notification from us that this was not our patient.

In addition, it is felt that the statistical methodology utilized in identifying mortality information is somewhat difficult to fully interpret. From a statistical standpoint the methodology does present a more accurate representation of mortality by hospital. But in presenting this information in this format to the general public, I believe, it is extremely difficult to understand, thus, loses the intent that HCFA had in providing this information.

We appreciate the opportunity given us to review data regarding our facility prior to its release to the public.

Sincerely,

Matthew D. Bailey
Assistant Director

/lv

GOSHEN GENERAL HOSPITAL

200 High Park Avenue
Goshen, IN 46526

Medicare Provider Number: 150026

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,269	8.8	7.9	1.0	12.6	11.9	1.0	16.0	15.2	1.1
CONDITIONS:										
Acute Myocardial Infarction	43	41.9	27.7	*	44.2	30.9	*	44.2	34.4	*
Congestive Heart Failure	93	21.5	14.4	4.8	28.0	22.2	5.1	33.3	28.7	5.1
Pneumonia/Influenza	66	6.1	14.3	6.7	12.1	19.7	8.3	15.2	24.0	8.0
Chronic Obstructive Pulmonary Disease	33	12.1	9.1	*	12.1	15.5	*	21.2	20.6	*
Transient Cerebral Ischemia	34	0.0	2.1	*	2.9	4.9	*	8.8	7.9	*
Stroke	60	25.0	19.3	8.2	28.3	25.0	7.5	31.7	29.3	6.3
Hip Fracture	54	7.4	6.9	3.7	9.3	12.3	5.5	13.0	15.9	6.3
Sepsis	9	11.1	31.3	*	22.2	41.2	*	33.3	47.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	8	0.0	3.7	*	0.0	7.7	*	12.5	11.6	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	21	0.0	2.8	*	0.0	5.5	*	0.0	7.6	*
Open Reduction of Hip Fracture	35	5.7	6.1	*	8.6	11.4	*	14.3	15.0	*
Prostatectomy	89	0.0	0.5	1.5	1.1	1.3	1.4	2.2	2.1	1.5
Cholecystectomy	47	0.0	1.4	*	2.1	2.4	*	2.1	3.3	*
Hysterectomy	8	0.0	0.5	*	0.0	1.0	*	0.0	1.6	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1990

Total Beds	160
Ownership/Control	Private, Non-Profit

STAFFING:

Medical Residents/Interns	0
Registered Nurses	127
Licensed Practical Nurses	12

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	Yes
Hospice	Yes
Intensive Care Unit	Yes
Organ Transplant	Yes
Rehabilitation	No
Shock Trauma	No

** **Not used in calculating hospital mortality rates.**

GOSHEN GENERAL HOSPITAL

Medicare Provider Number: 150026

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,266	8.5	8.2	0.8	13.0	12.4	1.1	16.2	15.7	1.1
CONDITIONS:										
Acute Myocardial Infarction	34	35.3	30.4	*	38.2	34.0	*	44.1	37.7	*
Congestive Heart Failure	61	9.8	13.9	6.7	21.3	21.3	5.3	23.0	27.6	7.8
Pneumonia/Influenza	76	11.8	14.8	5.0	18.4	20.0	4.8	22.4	24.2	5.3
Chronic Obstructive Pulmonary Disease	17	0.0	7.5	*	0.0	13.9	*	0.0	19.4	*
Transient Cerebral Ischemia	22	0.0	2.1	*	0.0	4.7	*	4.5	7.5	*
Stroke	69	15.9	20.4	7.5	21.7	26.6	8.5	29.0	31.3	6.7
Hip Fracture	48	2.1	6.7	*	4.2	12.2	*	8.3	15.8	*
Sepsis	6	33.3	22.6	*	83.3	32.1	*	83.3	38.9	*
PROCEDURE:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	28.6	16.2	*	28.6	22.7	*	28.6	27.8	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	19	5.3	3.5	*	5.3	6.7	*	10.5	8.8	*
Open Reduction of Hip Fracture	27	3.7	6.2	*	3.7	11.7	*	7.4	15.3	*
Prostatectomy	86	1.2	0.9	1.6	3.5	2.2	2.8	8.1	3.6	3.3
Cholecystectomy	35	2.9	1.9	*	2.9	3.4	*	5.7	4.5	*
Hysterectomy	14	7.1	1.0	*	7.1	2.2	*	7.1	3.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,248	9.0	7.6	1.0	13.2	11.5	1.3	15.2	14.7	1.0
CONDITIONS:										
Acute Myocardial Infarction	36	36.1	29.4	*	38.9	33.1	*	44.4	36.8	*
Congestive Heart Failure	58	15.5	16.2	5.2	25.9	24.7	6.1	29.3	31.7	8.2
Pneumonia/Influenza	50	18.0	17.5	*	18.0	23.8	*	20.0	28.9	*
Chronic Obstructive Pulmonary Disease	34	11.8	9.6	*	29.4	15.9	*	29.4	21.0	*
Transient Cerebral Ischemia	32	0.0	1.9	*	0.0	4.1	*	3.1	6.5	*
Stroke	48	31.2	23.9	*	35.4	30.5	*	37.5	35.4	*
Hip Fracture	51	7.8	6.2	3.7	7.8	11.5	5.6	11.8	15.1	6.8
Sepsis	4	0.0	28.3	*	25.0	37.7	*	25.0	43.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	0.0	9.5	*	0.0	13.9	*	28.6	17.3	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	22	9.1	2.4	*	9.1	4.5	*	9.1	6.1	*
Open Reduction of Hip Fracture	30	3.3	5.2	*	3.3	10.1	*	3.3	13.6	*
Prostatectomy	123	0.0	1.0	1.5	2.4	2.3	2.2	6.5	3.8	3.8
Cholecystectomy	36	0.0	2.1	*	0.0	4.1	*	0.0	5.8	*
Hysterectomy	8	0.0	1.8	*	0.0	3.7	*	12.5	5.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

GREENE COUNTY GENERAL HOSPITAL

RR 1 Box 453
Linton, IN 47441

Medicare Provider Number: 150066

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	589	13.1	10.1	2.4	16.8	15.0	2.0	20.0	18.8	1.8
CONDITIONS:										
Acute Myocardial Infarction	25	40.0	29.3	*	44.0	33.0	*	48.0	36.6	*
Congestive Heart Failure	51	19.6	15.9	7.1	29.4	24.6	7.6	33.3	31.5	6.9
Pneumonia/Influenza	41	22.0	15.4	*	24.4	20.8	*	26.8	25.0	*
Chronic Obstructive Pulmonary Disease	6	0.0	7.8	*	0.0	15.8	*	0.0	21.3	*
Transient Cerebral Ischemia	20	10.0	1.8	*	15.0	3.9	*	15.0	6.3	*
Stroke	30	23.3	18.9	*	30.0	25.1	*	30.0	29.4	*
Hip Fracture	24	16.7	4.5	*	20.8	8.4	*	20.8	11.1	*
Sepsis	12	16.7	30.1	*	33.3	39.9	*	33.3	47.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	6	16.7	4.4	*	16.7	9.0	*	16.7	12.3	*
Open Reduction of Hip Fracture	18	16.7	3.9	*	22.2	7.3	*	22.2	9.9	*
Prostatectomy	6	0.0	4.9	*	0.0	8.4	*	0.0	12.2	*
Cholecystectomy	12	0.0	2.2	*	0.0	3.4	*	0.0	4.1	*
Hysterectomy	6	0.0	1.3	*	0.0	3.1	*	0.0	4.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	76
Occupancy Rate	32
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	38
Percent of Physicians Board Certified Specialists	42
Medical Residents/Interns	0
Registered Nurses	34
Licensed Practical Nurses	8

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

GREENE COUNTY GENERAL HOSPITAL

Medicare Provider Number: 150066

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	565	15.8	10.6	1.7	20.5	15.3	2.0	23.9	19.1	2.0
CONDITIONS:										
Acute Myocardial Infarction	38	31.6	28.3	*	34.2	31.7	*	34.2	35.2	*
Congestive Heart Failure	48	22.9	15.7	*	35.4	23.8	*	47.9	30.7	*
Pneumonia/Influenza	28	50.0	20.6	*	60.7	28.3	*	64.3	34.0	*
Chronic Obstructive Pulmonary Disease	4	0.0	5.9	*	0.0	11.6	*	0.0	16.6	*
Transient Cerebral Ischemia	19	0.0	2.1	*	5.3	4.3	*	5.3	6.8	*
Stroke	31	35.5	20.7	*	35.5	27.1	*	41.9	31.9	*
Hip Fracture	16	6.3	5.9	*	6.3	11.0	*	6.3	14.4	*
Sepsis	8	50.0	41.5	*	62.5	50.7	*	62.5	57.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	6	0.0	4.9	*	0.0	8.0	*	0.0	10.0	*
Open Reduction of Hip Fracture	10	10.0	6.0	*	10.0	11.7	*	10.0	15.6	*
Prostatectomy	2	0.0	0.7	*	0.0	1.6	*	0.0	2.4	*
Cholecystectomy	11	18.2	3.8	*	18.2	6.7	*	18.2	8.5	*
Hysterectomy	4	0.0	3.0	*	0.0	5.1	*	0.0	6.9	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	614	10.9	8.9	1.3	16.1	13.3	1.6	20.5	17.0	1.8
CONDITIONS:										
Acute Myocardial Infarction	32	21.9	24.3	*	31.3	28.0	*	37.5	31.6	*
Congestive Heart Failure	51	21.6	13.8	6.9	21.6	20.9	9.0	35.3	27.1	8.3
Pneumonia/Influenza	32	12.5	15.8	*	18.8	22.0	*	21.9	26.9	*
Chronic Obstructive Pulmonary Disease	6	0.0	4.6	*	0.0	9.1	*	0.0	13.4	*
Transient Cerebral Ischemia	17	5.9	2.3	*	17.6	5.3	*	17.6	8.6	*
Stroke	28	17.9	24.3	*	21.4	31.4	*	28.6	36.5	*
Hip Fracture	23	8.7	5.3	*	17.4	10.1	*	17.4	13.7	*
Sepsis	9	33.3	26.9	*	33.3	34.5	*	33.3	41.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	13	0.0	3.5	*	15.4	7.1	*	15.4	9.9	*
Open Reduction of Hip Fracture	10	20.0	5.9	*	20.0	11.6	*	20.0	15.9	*
Prostatectomy	6	0.0	0.7	*	0.0	1.8	*	0.0	3.0	*
Cholecystectomy	18	0.0	4.4	*	5.6	7.0	*	22.2	8.3	*
Hysterectomy	7	0.0	2.2	*	0.0	3.2	*	0.0	4.1	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

HANCOCK MEMORIAL HOSPITAL

P O Box 827 801 North State Street
Greenfield, IN 46140

Medicare Provider Number: 150037

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,018	11.9	8.7	1.2	16.8	12.8	1.4	20.5	16.2	1.6
CONDITIONS:										
Acute Myocardial Infarction	50	42.0	31.5	*	48.0	35.3	*	52.0	38.9	*
Congestive Heart Failure	44	20.5	14.7	*	34.1	23.6	*	38.6	30.9	*
Pneumonia/Influenza	42	19.0	14.0	*	21.4	19.4	*	21.4	23.8	*
Chronic Obstructive Pulmonary Disease	10	0.0	6.7	*	10.0	12.6	*	10.0	17.9	*
Transient Cerebral Ischemia	13	0.0	1.5	*	0.0	3.4	*	7.7	5.5	*
Stroke	38	34.2	18.4	*	36.8	24.1	*	39.5	28.3	*
Hip Fracture	30	10.0	5.5	*	10.0	9.7	*	16.7	12.5	*
Sepsis	26	19.2	29.5	*	23.1	36.0	*	42.3	42.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	13	0.0	2.2	*	0.0	4.9	*	0.0	7.7	*
Carotid Endarterectomy	1	0.0	1.6	*	0.0	2.7	*	0.0	3.6	*
Hip Replacement/Reconstruction	14	14.3	3.2	*	14.3	6.1	*	14.3	8.3	*
Open Reduction of Hip Fracture	18	5.6	5.5	*	5.6	9.9	*	16.7	12.7	*
Prostatectomy	42	2.4	2.3	*	2.4	3.6	*	4.8	5.2	*
Cholecystectomy	31	3.2	3.1	*	6.5	5.2	*	9.7	6.6	*
Hysterectomy	6	16.7	1.3	*	16.7	2.8	*	33.3	4.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	120
Occupancy Rate	44
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	40
Percent of Physicians Board Certified Specialists	70
Medical Residents/Interns	0
Registered Nurses	74
Licensed Practical Nurses	15

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

HANCOCK MEMORIAL HOSPITAL

Medicare Provider Number: 150037

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	971	14.7	9.3	1.5	18.8	13.8	1.3	22.6	17.4	1.3
CONDITIONS:										
Acute Myocardial Infarction	38	31.6	28.7	*	34.2	31.9	*	34.2	35.3	*
Congestive Heart Failure	48	29.2	13.1	*	33.3	20.2	*	43.8	26.4	*
Pneumonia/Influenza	42	26.2	16.0	*	33.3	22.2	*	33.3	27.0	*
Chronic Obstructive Pulmonary Disease	6	33.3	10.4	*	33.3	19.3	*	33.3	25.9	*
Transient Cerebral Ischemia	26	3.8	1.7	*	7.7	3.8	*	7.7	6.1	*
Stroke	47	21.3	20.0	*	21.3	27.3	*	29.8	32.4	*
Hip Fracture	40	17.5	6.8	*	17.5	12.5	*	25.0	16.1	*
Sepsis	23	34.8	31.7	*	34.8	37.1	*	52.2	42.8	*
PROCEDURES:										
Angioplasty	7	0.0	5.0	*	0.0	5.7	*	0.0	6.6	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	1.4	*	0.0	3.2	*	0.0	5.1	*
Carotid Endarterectomy	2	0.0	2.5	*	0.0	5.0	*	0.0	7.0	*
Hip Replacement/Reconstruction	21	0.0	3.0	*	0.0	6.1	*	0.0	8.2	*
Open Reduction of Hip Fracture	27	22.2	6.2	*	22.2	11.8	*	33.3	15.5	*
Prostatectomy	54	0.0	2.7	4.0	1.9	4.3	5.1	7.4	5.9	4.3
Cholecystectomy	22	9.1	1.6	*	9.1	3.0	*	13.6	4.1	*
Hysterectomy	5	0.0	0.8	*	0.0	1.7	*	0.0	2.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	930	10.6	9.2	1.4	16.0	13.7	1.8	20.1	17.5	2.1
CONDITIONS:										
Acute Myocardial Infarction	39	20.5	27.8	*	30.8	30.9	*	38.5	34.1	*
Congestive Heart Failure	57	19.3	14.6	6.2	21.1	22.3	5.7	28.1	28.9	6.1
Pneumonia/Influenza	36	22.2	16.2	*	25.0	21.8	*	27.8	26.5	*
Chronic Obstructive Pulmonary Disease	19	21.1	6.9	*	26.3	12.0	*	31.6	16.2	*
Transient Cerebral Ischemia	19	0.0	2.3	*	0.0	4.9	*	0.0	7.6	*
Stroke	39	23.1	20.8	*	28.2	27.6	*	30.8	32.4	*
Hip Fracture	19	15.8	7.9	*	26.3	13.8	*	31.6	17.5	*
Sepsis	23	26.1	29.4	*	34.8	36.9	*	39.1	43.3	*
PROCEDURES:										
Angioplasty	3	0.0	3.7	*	0.0	5.1	*	0.0	6.5	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	0.0	4.8	*	0.0	8.0	*	0.0	10.0	*
Carotid Endarterectomy	1	0.0	1.0	*	0.0	1.7	*	0.0	2.3	*
Hip Replacement/Reconstruction	15	6.7	5.3	*	26.7	10.1	*	26.7	13.4	*
Open Reduction of Hip Fracture	8	12.5	7.3	*	12.5	13.4	*	12.5	17.3	*
Prostatectomy	40	0.0	1.6	*	2.5	3.9	*	5.0	6.3	*
Cholecystectomy	13	0.0	1.8	*	0.0	3.2	*	0.0	4.0	*
Hysterectomy	7	0.0	2.1	*	0.0	4.7	*	0.0	7.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

69.1

Hancock/Memorial Hospital
801 N. State Street Greenfield, IN 46140
(317) 462-5544

January 14, 1991

Attn: Mrs. Sandra Kappert
Health Standards and Quality Bureau
Health Care Financing Administration
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Mrs. Kappert:

Hancock Memorial Hospital staff have reviewed the HCFA mortality information about Medicare patients treated at this hospital in 1989. We appreciate the opportunity to verify and analyze the data as a tool to supplement our quality review activities.

We would like to report the following information based on our statistical and clinical analysis of the HCFA data and our hospital records.

1. The Quality Assurance program of Hancock Memorial Hospital includes Medical Staff committee review of all patient deaths in this facility. Physician review of the hospital deaths listed in HCFA's data determined death to be the expected outcome or a significant possibility in each case based on the end-stage disease process, multisystem complications or condition at the time of admission. Criteria for quality of care were met. Eighty-seven percent (87%) of the medical records document physician and patient and/or family agreement that extraordinary resuscitative measures should not be taken. In all cases, death was not reasonably preventable with medical intervention.

2. a. Forty-six percent (46%) of the deaths reported for HMH by HCFA occurred after discharge of the patient from the hospital, with seventy-six percent (76%) of those occurring greater than thirty days from the listed admission date.

    b. The medical records of the twenty-nine patients whose deaths occurred after discharge, and within thirty days of the admission, were reviewed against Medical Staff criteria for stability at discharge, prognosis at time of discharge and disposition. In each case, the medical record documented a terminal condition or a very guarded prognosis. Twenty (69%) of those patients were placed in extended care facilities.

3. Forty-one (29%) of the inpatient deaths were categorized in the HCFA report to a diagnosis from a previous admission unrelated to the cause of death. For instance, a patient who died during admission for a fractured hip is categorized as myocardial infarction from a previous admission. The HCFA statistics for specific conditions and procedures, therefore, should be studied further for interpretation.

Thank you again for the opportunity to comment on the mortality data. If you or anyone receiving this information has additional questions, please do not hesitate to call.

Sincerely,

Fuad M Hammoudeh

Fuad M. Hammoudeh
President

Dean Felker, M.D.
President of the Medical Staff

HARRISON COUNTY HOSPITAL

245 Atwood Street
Corydon, IN 47112

Medicare Provider Number: 150079

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	575	9.4	8.5	1.7	14.4	13.2	1.9	18.1	17.0	2.0
CONDITIONS:										
Acute Myocardial Infarction	18	33.3	27.0	*	50.0	30.5	*	55.6	34.1	*
Congestive Heart Failure	47	23.4	12.3	*	27.7	18.9	*	31.9	24.9	*
Pneumonia/Influenza	35	28.6	16.3	*	37.1	22.9	*	42.9	27.8	*
Chronic Obstructive Pulmonary Disease	15	6.7	5.3	*	6.7	11.6	*	6.7	17.6	*
Transient Cerebral Ischemia	6	0.0	1.8	*	0.0	3.9	*	0.0	6.3	*
Stroke	22	13.6	23.1	*	22.7	30.2	*	31.8	35.0	*
Hip Fracture	18	16.7	5.8	*	16.7	10.8	*	16.7	14.5	*
Sepsis	2	0.0	14.9	*	0.0	20.9	*	0.0	25.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	6	0.0	4.5	*	0.0	8.7	*	0.0	11.8	*
Open Reduction of Hip Fracture	6	16.7	5.2	*	16.7	9.5	*	16.7	12.6	*
Prostatectomy	15	0.0	1.3	*	0.0	3.1	*	0.0	5.2	*
Cholecystectomy	22	0.0	1.7	*	0.0	3.0	*	0.0	3.8	*
Hysterectomy	6	0.0	0.6	*	0.0	1.0	*	0.0	1.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	68
Occupancy Rate	34
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	17
Percent of Physicians Board Certified Specialists	47
Medical Residents/Interns	0
Registered Nurses	24
Licensed Practical Nurses	7

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

HARRISON COUNTY HOSPITAL

Medicare Provider Number: 150079

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	551	12.5	9.5	2.0	18.0	14.8	2.1	21.1	18.9	2.2
CONDITIONS:										
Acute Myocardial Infarction	15	40.0	23.3	*	40.0	25.8	*	46.7	28.7	*
Congestive Heart Failure	30	23.3	13.6	*	30.0	21.7	*	30.0	28.6	*
Pneumonia/Influenza	54	27.8	17.5	8.3	35.2	24.3	9.2	35.2	29.3	10.1
Chronic Obstructive Pulmonary Disease	3	33.3	30.2	*	33.3	45.5	*	33.3	55.4	*
Transient Cerebral Ischemia	7	0.0	1.4	*	0.0	3.0	*	0.0	4.6	*
Stroke	27	33.3	18.1	*	37.0	24.4	*	40.7	28.9	*
Hip Fracture	18	5.6	5.7	*	11.1	11.0	*	11.1	14.6	*
Sepsis	4	50.0	29.6	*	50.0	37.7	*	50.0	45.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	3.9	*	0.0	7.2	*	0.0	10.4	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	12	0.0	6.1	*	8.3	12.4	*	8.3	16.7	*
Open Reduction of Hip Fracture	6	16.7	3.4	*	16.7	6.7	*	16.7	9.1	*
Prostatectomy	9	11.1	1.1	*	11.1	2.6	*	11.1	4.4	*
Cholecystectomy	16	0.0	2.8	*	12.5	4.9	*	18.8	6.2	*
Hysterectomy	7	0.0	1.1	*	0.0	2.2	*	0.0	3.0	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	525	11.4	8.4	2.1	15.2	12.9	2.2	19.6	16.5	2.4
CONDITIONS:										
Acute Myocardial Infarction	31	25.8	25.3	*	32.3	28.5	*	38.7	31.8	*
Congestive Heart Failure	21	23.8	13.8	*	33.3	21.1	*	38.1	27.6	*
Pneumonia/Influenza	31	12.9	13.0	*	12.9	18.5	*	19.4	23.1	*
Chronic Obstructive Pulmonary Disease	6	16.7	6.1	*	16.7	12.0	*	50.0	17.4	*
Transient Cerebral Ischemia	7	0.0	1.7	*	14.3	3.7	*	14.3	6.0	*
Stroke	35	25.7	16.6	*	28.6	22.5	*	37.1	26.9	*
Hip Fracture	12	8.3	5.9	*	25.0	11.2	*	33.3	15.0	*
Sepsis	3	33.3	21.0	*	33.3	31.6	*	33.3	38.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	1	0.0	1.0	*	0.0	1.5	*	0.0	2.0	*
Hip Replacement/Reconstruction	7	14.3	5.9	*	14.3	11.5	*	28.6	16.0	*
Open Reduction of Hip Fracture	3	0.0	2.9	*	33.3	5.9	*	33.3	8.2	*
Prostatectomy	8	0.0	2.0	*	0.0	4.9	*	0.0	7.9	*
Cholecystectomy	12	0.0	2.0	*	0.0	3.8	*	0.0	4.9	*
Hysterectomy	1	0.0	0.2	*	0.0	0.3	*	0.0	0.4	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

HENDRICKS COMMUNITY HOSPITAL

1000 East Main Street
Danville, IN 46122

Medicare Provider Number: 150005

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,187	11.6	10.8	1.2	16.3	16.1	1.1	20.2	20.2	1.3
CONDITIONS:										
Acute Myocardial Infarction	44	18.2	25.6	*	25.0	29.7	*	27.3	33.4	*
Congestive Heart Failure	75	20.0	14.0	8.1	28.0	21.7	10.1	32.0	28.2	8.7
Pneumonia/Influenza	60	21.7	16.6	7.2	25.0	22.6	6.0	26.7	27.5	5.9
Chronic Obstructive Pulmonary Disease	13	0.0	4.2	*	0.0	8.0	*	7.7	11.6	*
Transient Cerebral Ischemia	31	3.2	1.9	*	12.9	4.2	*	12.9	6.8	*
Stroke	52	28.8	19.0	8.7	40.4	26.4	9.0	42.3	31.0	8.2
Hip Fracture	43	7.0	6.3	*	11.6	11.3	*	14.0	14.6	*
Sepsis	31	19.4	31.1	*	32.3	38.5	*	41.9	44.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	6	0.0	3.4	*	16.7	8.4	*	16.7	14.0	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	8	25.0	6.4	*	25.0	12.5	*	25.0	16.5	*
Open Reduction of Hip Fracture	27	0.0	5.6	*	3.7	10.4	*	3.7	13.5	*
Prostatectomy	32	0.0	0.7	*	0.0	1.7	*	3.1	3.0	*
Cholecystectomy	22	13.6	2.0	*	13.6	3.2	*	13.6	4.1	*
Hysterectomy	11	0.0	2.0	*	9.1	4.5	*	9.1	7.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	127
Occupancy Rate	54
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	154
Percent of Physicians Board Certified Specialists	85
Medical Residents/Interns	0
Registered Nurses	129
Licensed Practical Nurses	13

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

HENDRICKS COMMUNITY HOSPITAL

Medicare Provider Number: 150005

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,094	12.2	10.9	1.3	18.5	16.4	1.7	23.0	20.6	2.0
CONDITIONS:										
Acute Myocardial Infarction	38	34.2	30.4	*	34.2	33.4	*	34.2	36.7	*
Congestive Heart Failure	65	16.9	18.0	5.3	32.3	27.4	9.1	41.5	34.6	11.2
Pneumonia/Influenza	61	21.3	17.3	7.1	26.2	23.3	8.2	31.1	28.1	7.6
Chronic Obstructive Pulmonary Disease	5	20.0	5.7	*	20.0	9.3	*	20.0	12.9	*
Transient Cerebral Ischemia	28	3.6	2.2	*	7.1	4.8	*	10.7	7.5	*
Stroke	41	26.8	18.9	*	29.3	25.8	*	36.6	30.4	*
Hip Fracture	43	7.0	7.0	*	14.0	12.8	*	16.3	16.5	*
Sepsis	21	23.8	24.1	*	42.9	30.7	*	52.4	36.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	10	20.0	8.1	*	30.0	11.5	*	30.0	14.6	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	14	7.1	5.7	*	14.3	11.3	*	14.3	14.9	*
Open Reduction of Hip Fracture	24	8.3	6.3	*	16.7	12.1	*	20.8	16.0	*
Prostatectomy	30	0.0	1.1	*	0.0	2.5	*	3.3	4.0	*
Cholecystectomy	26	3.8	2.8	*	7.7	5.3	*	11.5	7.1	*
Hysterectomy	14	0.0	0.6	*	0.0	1.4	*	0.0	2.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,088	10.8	10.0	1.2	17.3	15.4	1.9	20.6	19.7	1.7
CONDITIONS:										
Acute Myocardial Infarction	37	35.1	31.5	*	40.5	35.1	*	45.9	38.8	*
Congestive Heart Failure	72	18.1	17.7	4.7	27.8	26.7	5.7	36.1	34.1	5.8
Pneumonia/Influenza	66	21.2	18.6	7.2	28.8	25.2	6.6	30.3	30.6	5.8
Chronic Obstructive Pulmonary Disease	8	25.0	9.6	*	37.5	15.5	*	37.5	20.7	*
Transient Cerebral Ischemia	21	9.5	2.8	*	19.0	6.6	*	23.8	10.6	*
Stroke	64	18.8	18.4	4.9	31.3	25.4	6.8	35.9	29.9	9.3
Hip Fracture	40	10.0	7.3	*	27.5	13.7	*	30.0	18.0	*
Sepsis	6	16.7	21.6	*	16.7	29.6	*	16.7	35.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	0.0	4.4	*	14.3	8.6	*	14.3	12.3	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	6.3	*	25.0	14.1	*	25.0	20.8	*
Open Reduction of Hip Fracture	33	12.1	6.3	*	27.3	12.3	*	27.3	16.4	*
Prostatectomy	43	0.0	1.1	*	0.0	2.7	*	0.0	4.6	*
Cholecystectomy	24	12.5	5.6	*	20.8	10.8	*	25.0	14.9	*
Hysterectomy	12	0.0	0.5	*	0.0	1.0	*	0.0	1.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

73.1

Hendricks Community Hospital

1000 East Main Street, P.O. Box 409, Danville, Indiana 46122-0409 (317) 745-3500

January 14, 1991

Dennis W. Dawes, FACHE
President

Health Care Financing Administration
Health Care Standards and Quality Bureau
Attention: Ms. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Re: 1989 Medicare Mortality Data
Hendricks Community Hospital
Medicare Provider #15005

Dear Ms. Kappert:

I am writing in response to the FY 1989 Medicare Hospital Mortality Rates which will be published in the spring of 1991. We are pleased to be able to provide a response prior to the publication date.

We are unfortunately unable to comment on several areas in the survey as the sample size was not large enough to produce meaningful data for interpretation. According to HCFA guidelines, "the precision and interpretability of our estimates are questionable when there are no deaths or 50 or fewer cases in a particular category being analyzed." For Hendricks Community Hospital, this applies to the following conditions and procedures:

Acute Myocardial Infarction
Chronic Obstructive Pulmonary Disease
Transient Cerebral Ischemia
Hip Fracture
Sepsis
Angioplasty (procedure not performed at Hendricks Community Hospital)
Coronary Artery Bypass Graft (procedure not performed at Hendricks Community Hospital)
Initial Pacemaker Insertion
Carotid Endarterectomy (no patients in study)
Hip Replacement/Reconstruction
Open Reduction of Hip Fracture
Prostatectomy
Cholecystectomy
Hysterectomy

Statistically, meaningful data was generated for mortality attributable to All Causes, Congestive Heart Failure, Pneumonia/Influenza, and Stroke. In these cases, using the predicted mortality rate and standard deviation, one can calculate a range of expected mortality for each condition. Again, using HCFA guidelines, we can state with 95% confidence that mortality due to All Causes, Congestive Heart Failure, Pneumonia/Influenza, and Stroke are all within the expected mortality range for each condition.

In conclusion, we would like to make the following comments. Death six months post admission to a hospital may not be related to the hospitalization, especially in the case of surgical procedures. Second, the medical staff of Hendricks Community Hospital reviews all cases of mortality occurring within the hospital as a function of ongoing quality assurance activities. Finally, overall mortality rates for All Causes is found to be at the predicted level for 30 days, 90 days, and 180 days respectively for 1989.

We appreciate the opportunity to respond to the data presented.

Sincerely,

Dennis W. Dawes

Dennis W. Dawes, FACHE
President

DWD:mm

HENRY COUNTY MEMORIAL HOSPITAL

1000 North 16th Street
New Castle, IN 47362

Medicare Provider Number: 150030

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	1,058	11.3	10.6	1.3	16.3	15.3	1.3	18.8	19.2	1.3
CONDITIONS:										
Acute Myocardial Infarction	53	28.3	32.3	10.1	30.2	35.1	9.8	34.0	38.5	9.2
Congestive Heart Failure	81	16.0	12.9	4.9	22.2	20.2	5.5	29.6	26.4	6.1
Pneumonia/Influenza	75	13.3	17.0	6.4	18.7	23.0	8.0	21.3	27.8	9.3
Chronic Obstructive Pulmonary Disease	27	11.1	7.7	*	11.1	12.9	*	11.1	17.6	*
Transient Cerebral Ischemia	8	0.0	2.4	*	0.0	5.6	*	12.5	9.2	*
Stroke	62	29.0	20.1	10.0	37.1	26.2	12.3	40.3	30.7	11.6
Hip Fracture	28	7.1	5.5	*	7.1	10.0	*	7.1	13.2	*
Sepsis	5	20.0	20.1	*	20.0	24.5	*	20.0	28.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	13	0.0	6.4	*	7.7	9.7	*	7.7	12.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	19	0.0	3.4	*	0.0	6.3	*	0.0	8.5	*
Open Reduction of Hip Fracture	6	0.0	5.5	*	0.0	10.3	*	0.0	13.6	*
Prostatectomy	52	0.0	0.8	1.5	1.9	2.1	2.2	1.9	3.5	3.2
Cholecystectomy	28	10.7	4.0	*	10.7	7.0	*	10.7	8.8	*
Hysterectomy	4	0.0	3.1	*	0.0	6.7	*	0.0	9.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	107
Occupancy Rate	48
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	28
Percent of Physicians Board Certified Specialists	75
Medical Residents/Interns	0
Registered Nurses	90
Licensed Practical Nurses	21

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

HENRY COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 150030

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,106	9.8	9.7	1.1	13.2	13.9	1.4	16.5	17.4	1.7
CONDITIONS:										
Acute Myocardial Infarction	48	25.0	35.6	*	27.1	38.9	*	33.3	42.7	*
Congestive Heart Failure	49	4.1	16.1	*	10.2	24.4	*	20.4	31.2	*
Pneumonia/Influenza	64	23.4	15.7	8.0	28.1	21.0	7.3	29.7	25.3	6.5
Chronic Obstructive Pulmonary Disease	18	16.7	7.5	*	22.2	12.9	*	22.2	17.8	*
Transient Cerebral Ischemia	16	0.0	2.4	*	0.0	5.3	*	6.3	8.5	*
Stroke	46	21.7	20.9	*	28.3	26.5	*	32.6	31.1	*
Hip Fracture	34	5.9	7.2	*	8.8	13.0	*	17.6	16.6	*
Sepsis	14	42.9	38.3	*	57.1	45.4	*	57.1	52.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	16	12.5	7.3	*	12.5	11.5	*	12.5	15.2	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	14	0.0	5.1	*	7.1	9.8	*	21.4	12.8	*
Open Reduction of Hip Fracture	14	7.1	7.6	*	7.1	14.3	*	14.3	18.6	*
Prostatectomy	53	0.0	0.8	1.5	1.9	1.8	2.0	3.8	2.9	2.7
Cholecystectomy	25	0.0	2.9	*	4.0	4.8	*	4.0	6.0	*
Hysterectomy	6	0.0	1.4	*	0.0	2.8	*	0.0	4.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,118	10.8	9.9	1.0	14.9	14.3	1.1	16.5	17.9	1.3
CONDITIONS:										
Acute Myocardial Infarction	71	33.8	30.6	6.7	36.6	33.6	6.7	36.6	37.0	5.7
Congestive Heart Failure	67	14.9	16.4	4.9	26.9	25.1	5.9	28.4	32.3	8.4
Pneumonia/Influenza	51	19.6	16.2	5.6	23.5	22.2	5.9	25.5	27.1	6.3
Chronic Obstructive Pulmonary Disease	12	8.3	10.2	*	16.7	17.2	*	16.7	22.2	*
Transient Cerebral Ischemia	13	0.0	1.9	*	0.0	4.1	*	0.0	6.4	*
Stroke	44	29.5	21.3	*	36.4	27.5	*	36.4	32.4	*
Hip Fracture	23	8.7	7.2	*	13.0	12.7	*	13.0	16.2	*
Sepsis	11	18.2	36.7	*	27.3	44.7	*	27.3	51.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	15	13.3	4.5	*	13.3	8.4	*	13.3	12.4	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	18	0.0	5.8	*	5.6	11.0	*	5.6	14.4	*
Open Reduction of Hip Fracture	6	33.3	7.3	*	33.3	13.1	*	33.3	16.7	*
Prostatectomy	49	2.0	1.3	*	2.0	3.3	*	2.0	5.4	*
Cholecystectomy	21	4.8	2.2	*	4.8	3.9	*	4.8	5.3	*
Hysterectomy	13	0.0	0.9	*	0.0	1.6	*	0.0	2.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOLY CROSS PARKVIEW HOSPITAL

1915 Lake Ave P O Box 670
Plymouth, IN 46563

Medicare Provider Number: 150076

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	565	13.6	10.2	1.9	16.8	14.7	1.8	21.1	18.4	2.0
CONDITIONS:										
Acute Myocardial Infarction	23	39.1	25.9	*	43.5	28.9	*	43.5	32.5	*
Congestive Heart Failure	37	18.9	14.2	*	21.6	21.9	*	32.4	28.7	*
Pneumonia/Influenza	24	25.0	16.8	*	33.3	23.0	*	37.5	27.8	*
Chronic Obstructive Pulmonary Disease	13	7.7	9.1	*	15.4	15.1	*	23.1	19.6	*
Transient Cerebral Ischemia	8	0.0	1.3	*	0.0	3.0	*	0.0	4.8	*
Stroke	40	40.0	21.2	*	42.5	27.5	*	45.0	32.3	*
Hip Fracture	28	14.3	5.9	*	17.9	11.2	*	21.4	15.0	*
Sepsis	4	0.0	32.6	*	0.0	40.5	*	0.0	49.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	10	0.0	5.0	*	10.0	9.6	*	10.0	12.8	*
Open Reduction of Hip Fracture	9	22.2	5.1	*	22.2	10.1	*	22.2	13.8	*
Prostatectomy	31	0.0	0.7	*	3.2	1.5	*	3.2	2.6	*
Cholecystectomy	8	0.0	2.2	*	0.0	3.6	*	0.0	4.5	*
Hysterectomy	4	0.0	0.8	*	0.0	1.7	*	0.0	2.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	58
Occupancy Rate	38
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	78
Percent of Physicians Board Certified Specialists	68
Medical Residents/Interns	0
Registered Nurses	47
Licensed Practical Nurses	4

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

HOLY CROSS PARKVIEW HOSPITAL

Medicare Provider Number: 150076

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	577	13.0	9.0	1.8	16.8	13.2	2.0	20.6	16.8	2.0
CONDITIONS:										
Acute Myocardial Infarction	30	36.7	23.8	*	40.0	26.9	*	46.7	30.3	*
Congestive Heart Failure	39	28.2	13.7	*	35.9	21.2	*	41.0	27.5	*
Pneumonia/Influenza	27	18.5	17.5	*	25.9	24.2	*	25.9	29.1	*
Chronic Obstructive Pulmonary Disease	14	14.3	5.7	*	21.4	10.2	*	21.4	14.4	*
Transient Cerebral Ischemia	6	0.0	1.9	*	16.7	4.4	*	16.7	7.0	*
Stroke	30	30.0	21.9	*	36.7	28.1	*	43.3	33.0	*
Hip Fracture	17	5.9	7.4	*	17.6	14.5	*	29.4	19.3	*
Sepsis	7	28.6	28.1	*	28.6	33.0	*	28.6	38.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	11.7	*	0.0	13.6	*	0.0	15.4	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	9	11.1	6.8	*	33.3	13.2	*	33.3	17.2	*
Open Reduction of Hip Fracture	5	0.0	8.3	*	20.0	17.6	*	60.0	24.7	*
Prostatectomy	32	0.0	1.0	*	3.1	2.6	*	3.1	4.4	*
Cholecystectomy	11	0.0	2.9	*	0.0	5.1	*	9.1	6.2	*
Hysterectomy	5	0.0	0.7	*	0.0	1.5	*	0.0	2.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	580	11.0	8.4	1.4	15.2	12.5	1.7	17.8	15.9	1.7
CONDITIONS:										
Acute Myocardial Infarction	26	34.6	24.3	*	42.3	27.5	*	42.3	30.6	*
Congestive Heart Failure	41	12.2	15.9	*	22.0	24.1	*	29.3	30.9	*
Pneumonia/Influenza	32	18.8	14.3	*	28.1	20.0	*	31.3	24.8	*
Chronic Obstructive Pulmonary Disease	16	12.5	7.0	*	12.5	12.4	*	12.5	16.9	*
Transient Cerebral Ischemia	14	0.0	1.7	*	0.0	3.8	*	7.1	6.2	*
Stroke	25	24.0	19.5	*	28.0	25.8	*	28.0	30.5	*
Hip Fracture	21	0.0	4.9	*	9.5	9.5	*	14.3	12.8	*
Sepsis	8	37.5	29.2	*	50.0	34.7	*	50.0	40.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	10	0.0	3.6	*	0.0	7.4	*	0.0	10.2	*
Open Reduction of Hip Fracture	10	0.0	4.5	*	10.0	9.2	*	10.0	12.8	*
Prostatectomy	34	8.8	0.9	*	8.8	2.1	*	11.8	3.3	*
Cholecystectomy	16	0.0	1.4	*	0.0	2.6	*	0.0	3.4	*
Hysterectomy	3	0.0	0.6	*	0.0	1.0	*	0.0	1.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOWARD COMMUNITY HOSPITAL

3500 S La Fountain St
Kokomo, IN 46901

Medicare Provider Number: 150007

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	811	8.4	7.5	1.1	11.2	11.5	1.2	14.1	14.8	1.4
CONDITIONS:										
Acute Myocardial Infarction	9	33.3	27.7	*	33.3	30.8	*	33.3	34.0	*
Congestive Heart Failure	48	18.7	16.3	*	31.3	25.1	*	37.5	32.0	*
Pneumonia/Influenza	27	11.1	15.2	*	11.1	20.8	*	25.9	25.4	*
Chronic Obstructive Pulmonary Disease	11	9.1	10.3	*	9.1	15.8	*	9.1	20.5	*
Transient Cerebral Ischemia	24	4.2	1.7	*	4.2	3.7	*	8.3	5.9	*
Stroke	23	30.4	17.8	*	30.4	23.6	*	34.8	27.7	*
Hip Fracture	11	0.0	8.3	*	0.0	14.4	*	9.1	18.1	*
Sepsis	3	66.7	36.4	*	66.7	50.7	*	66.7	58.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	14.3	3.9	*	14.3	5.8	*	14.3	7.3	*
Carotid Endarterectomy	11	0.0	1.4	*	0.0	2.8	*	0.0	4.1	*
Hip Replacement/Reconstruction	12	0.0	2.1	*	0.0	4.4	*	0.0	6.5	*
Open Reduction of Hip Fracture	5	0.0	11.5	*	0.0	20.6	*	20.0	25.9	*
Prostatectomy	37	0.0	0.7	*	0.0	1.8	*	0.0	3.1	*
Cholecystectomy	14	7.1	5.4	*	7.1	6.6	*	14.3	7.4	*
Hysterectomy	7	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	188
Occupancy Rate	56
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	68
Percent of Physicians Board Certified Specialists	59
Medical Residents/Interns	0
Registered Nurses	149
Licensed Practical Nurses	12

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

HOWARD COMMUNITY HOSPITAL

Medicare Provider Number: 150007

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	885	9.8	7.5	1.3	14.1	11.4	1.5	17.7	14.5	1.8
CONDITIONS:										
Acute Myocardial Infarction	15	40.0	22.9	*	40.0	25.2	*	40.0	28.0	*
Congestive Heart Failure	38	21.1	16.3	*	31.6	24.7	*	39.5	31.5	*
Pneumonia/Influenza	21	42.9	19.4	*	42.9	25.8	*	47.6	30.7	*
Chronic Obstructive Pulmonary Disease	7	14.3	10.4	*	14.3	17.4	*	14.3	23.1	*
Transient Cerebral Ischemia	22	4.5	1.9	*	9.1	4.2	*	9.1	6.5	*
Stroke	12	33.3	29.2	*	58.3	36.4	*	58.3	41.4	*
Hip Fracture	22	9.1	6.0	*	9.1	10.8	*	9.1	14.0	*
Sepsis	6	50.0	22.1	*	66.7	30.3	*	83.3	37.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	10	20.0	6.0	*	20.0	9.5	*	20.0	12.9	*
Carotid Endarterectomy	13	7.7	1.5	*	7.7	2.8	*	7.7	4.1	*
Hip Replacement/Reconstruction	11	18.2	3.6	*	18.2	6.8	*	18.2	8.7	*
Open Reduction of Hip Fracture	13	0.0	5.5	*	0.0	10.6	*	0.0	14.1	*
Prostatectomy	43	2.3	0.6	*	2.3	1.4	*	2.3	2.3	*
Cholecystectomy	13	15.4	2.6	*	15.4	4.9	*	15.4	6.5	*
Hysterectomy	17	0.0	0.7	*	0.0	1.7	*	0.0	2.7	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	858	10.3	7.1	1.3	14.0	10.7	1.4	17.1	13.6	1.4
CONDITIONS:										
Acute Myocardial Infarction	19	26.3	26.0	*	31.6	29.6	*	42.1	33.2	*
Congestive Heart Failure	41	29.3	17.5	*	46.3	26.3	*	58.5	33.4	*
Pneumonia/Influenza	37	13.5	15.4	*	16.2	21.2	*	24.3	25.9	*
Chronic Obstructive Pulmonary Disease	8	12.5	14.3	*	25.0	23.7	*	25.0	31.4	*
Transient Cerebral Ischemia	29	3.4	1.8	*	3.4	3.7	*	6.9	5.6	*
Stroke	27	37.0	22.2	*	37.0	29.5	*	40.7	34.2	*
Hip Fracture	18	11.1	5.6	*	11.1	10.2	*	22.2	13.2	*
Sepsis	7	42.9	32.6	*	71.4	41.4	*	71.4	47.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	0.0	5.2	*	0.0	8.4	*	0.0	10.7	*
Carotid Endarterectomy	3	0.0	1.0	*	0.0	1.9	*	0.0	2.7	*
Hip Replacement/Reconstruction	13	0.0	2.9	*	0.0	5.8	*	7.7	7.9	*
Open Reduction of Hip Fracture	5	20.0	7.2	*	20.0	12.8	*	40.0	16.1	*
Prostatectomy	31	0.0	0.5	*	0.0	1.3	*	3.2	2.3	*
Cholecystectomy	24	4.2	1.8	*	4.2	2.8	*	4.2	3.5	*
Hysterectomy	11	0.0	0.6	*	0.0	1.2	*	0.0	1.9	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HUMANA WOMENS HOSPITAL INDIANAPOLIS

8111 Township Line Road
Indianapolis, IN 46260

Medicare Provider Number: 150136

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	49	0.0	0.9	*	2.0	1.6	*	2.0	2.4	*
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	17	0.0	0.4	*	0.0	0.9	*	0.0	1.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	144
Occupancy Rate	36
Ownership/Control	Private, For Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	141
Percent of Physicians Board Certified Specialists	62
Medical Residents/Interns	0
Registered Nurses	127
Licensed Practical Nurses	0

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

HUMANA WOMENS HOSPITAL INDIANAPOLIS

Medicare Provider Number: 150136

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	30	0.0	0.9	*	0.0	1.9	*	0.0	2.8	*
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	17	0.0	0.5	*	0.0	1.1	*	0.0	1.6	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	37	0.0	1.0	*	0.0	2.1	*	0.0	3.2	*
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	24	0.0	0.6	*	0.0	1.4	*	0.0	2.2	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HUNTINGTON MEMORIAL HOSPITAL

1215 Etna Avenue
Huntington, IN 46750

Medicare Provider Number: 150091

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	439	11.2	8.7	1.8	14.4	13.0	1.8	18.0	16.6	2.0
CONDITIONS:										
Acute Myocardial Infarction	18	27.8	23.8	*	27.8	26.6	*	27.8	29.9	*
Congestive Heart Failure	38	21.1	14.2	*	26.3	22.2	*	36.8	28.8	*
Pneumonia/Influenza	36	25.0	15.2	*	25.0	20.6	*	25.0	25.1	*
Chronic Obstructive Pulmonary Disease	7	14.3	6.1	*	14.3	11.0	*	28.6	15.5	*
Transient Cerebral Ischemia	5	0.0	1.7	*	0.0	3.6	*	0.0	5.8	*
Stroke	21	23.8	18.8	*	28.6	25.0	*	28.6	29.7	*
Hip Fracture	19	10.5	5.0	*	15.8	9.6	*	21.1	12.9	*
Sepsis	5	0.0	17.5	*	0.0	22.5	*	0.0	27.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	12	0.0	2.9	*	0.0	6.0	*	0.0	8.5	*
Open Reduction of Hip Fracture	8	12.5	3.8	*	12.5	7.7	*	25.0	10.6	*
Prostatectomy	7	0.0	1.9	*	0.0	4.7	*	0.0	7.9	*
Cholecystectomy	15	6.7	2.9	*	6.7	5.4	*	13.3	7.3	*
Hysterectomy	4	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	69
Occupancy Rate	59
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	(Not Available)
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	(Not Available)
Registered Nurses	(Not Available)
Licensed Practical Nurses	(Not Available)

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

HUNTINGTON MEMORIAL HOSPITAL

Medicare Provider Number: 150091

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	423	13.2	9.8	2.0	18.0	14.3	2.2	21.5	17.9	2.4
CONDITIONS:										
Acute Myocardial Infarction	16	25.0	28.8	*	25.0	31.9	*	25.0	35.3	*
Congestive Heart Failure	45	22.2	13.9	*	33.3	21.4	*	35.6	27.8	*
Pneumonia/Influenza	24	25.0	16.6	*	25.0	22.1	*	33.3	26.6	*
Chronic Obstructive Pulmonary Disease	6	16.7	10.6	*	16.7	18.9	*	33.3	25.4	*
Transient Cerebral Ischemia	7	0.0	1.6	*	0.0	3.6	*	14.3	5.8	*
Stroke	24	25.0	24.2	*	33.3	30.5	*	41.7	35.4	*
Hip Fracture	12	16.7	4.7	*	16.7	9.1	*	16.7	12.4	*
Sepsis	3	0.0	27.8	*	33.3	33.4	*	33.3	39.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	20.0	3.4	*	20.0	6.9	*	20.0	9.5	*
Open Reduction of Hip Fracture	7	14.3	4.6	*	14.3	9.5	*	14.3	13.2	*
Prostatectomy	11	0.0	0.8	*	9.1	1.9	*	9.1	3.0	*
Cholecystectomy	10	10.0	2.0	*	10.0	3.2	*	10.0	4.0	*
Hysterectomy	3	33.3	0.3	*	33.3	0.7	*	33.3	1.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	408	13.2	9.7	2.3	19.9	14.5	2.5	24.5	18.4	2.8
CONDITIONS:										
Acute Myocardial Infarction	14	28.6	29.0	*	28.6	32.7	*	35.7	35.9	*
Congestive Heart Failure	33	18.2	16.9	*	27.3	25.6	*	33.3	32.8	*
Pneumonia/Influenza	15	26.7	18.5	*	33.3	24.6	*	33.3	29.6	*
Chronic Obstructive Pulmonary Disease	11	18.2	8.3	*	27.3	13.9	*	27.3	18.5	*
Transient Cerebral Ischemia	11	9.1	1.9	*	9.1	4.4	*	9.1	7.1	*
Stroke	23	21.7	20.1	*	39.1	26.3	*	47.8	31.2	*
Hip Fracture	16	12.5	5.8	*	18.8	11.0	*	25.0	14.5	*
Sepsis	6	33.3	21.3	*	33.3	26.9	*	33.3	32.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	40.0	6.1	*	40.0	11.6	*	40.0	15.3	*
Open Reduction of Hip Fracture	8	0.0	4.7	*	0.0	9.4	*	12.5	12.9	*
Prostatectomy	12	8.3	0.9	*	8.3	2.2	*	16.7	3.6	*
Cholecystectomy	9	0.0	1.7	*	0.0	3.1	*	0.0	4.3	*
Hysterectomy	8	0.0	0.7	*	0.0	1.4	*	12.5	2.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

INDIANA UNIVERSITY HOSPITALS

1100 West Michigan St
Indianapolis, IN 46202

Medicare Provider Number: 150032

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,949	4.4	7.8	0.7	8.7	13.2	0.9	12.1	17.5	1.0
CONDITIONS:										
Acute Myocardial Infarction	23	4.3	27.6	*	8.7	31.3	*	13.0	34.9	*
Congestive Heart Failure	26	3.8	13.8	*	7.7	22.0	*	15.4	28.4	*
Pneumonia/Influenza	16	18.8	13.6	*	31.3	19.8	*	37.5	24.6	*
Chronic Obstructive Pulmonary Disease	10	10.0	5.5	*	10.0	10.2	*	10.0	14.4	*
Transient Cerebral Ischemia	4	0.0	1.5	*	0.0	3.1	*	0.0	4.8	*
Stroke	12	16.7	25.9	*	25.0	32.3	*	25.0	37.1	*
Hip Fracture	9	0.0	9.3	*	0.0	16.6	*	0.0	21.5	*
Sepsis	7	14.3	23.6	*	28.6	30.6	*	28.6	36.9	*
PROCEDURES:										
Angioplasty	42	2.4	1.9	*	4.8	2.9	*	4.8	4.1	*
Coronary Artery Bypass Graft	62	3.2	6.7	4.1	3.2	10.1	5.6	4.8	12.4	6.3
Initial Pacemaker Insertion	12	8.3	4.2	*	8.3	8.5	*	8.3	12.4	*
Carotid Endarterectomy	6	16.7	1.9	*	16.7	3.7	*	16.7	5.5	*
Hip Replacement/Reconstruction	65	0.0	1.6	*	0.0	3.3	*	0.0	4.9	*
Open Reduction of Hip Fracture	4	0.0	6.5	*	0.0	11.2	*	0.0	14.2	*
Prostatectomy	41	0.0	1.3	*	0.0	3.0	*	0.0	5.0	*
Cholecystectomy	21	4.8	6.8	*	9.5	12.5	*	9.5	16.5	*
Hysterectomy	28	3.6	1.6	*	3.6	3.3	*	3.6	4.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	590
Occupancy Rate	77
Ownership/Control	State Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	613
Percent of Physicians Board Certified Specialists	80
Medical Residents/Interns	201
Registered Nurses	1,164
Licensed Practical Nurses	86

SPECIALTY SERVICES:

Burn Unit	Yes
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	Yes
Other Intensive Care	Yes
Rehabilitation Unit	No
Trauma Center	Yes

**** Not used in calculating hospital mortality rates.**

INDIANA UNIVERSITY HOSPITALS

Medicare Provider Number: 150032

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,920	5.1	8.1	0.7	9.8	13.4	0.9	13.3	17.5	1.0
CONDITIONS:										
Acute Myocardial Infarction	31	12.9	30.5	*	16.1	34.0	*	19.4	37.8	*
Congestive Heart Failure	22	13.6	15.2	*	27.3	23.6	*	36.4	30.5	*
Pneumonia/Influenza	18	5.6	19.6	*	27.8	27.4	*	38.9	33.1	*
Chronic Obstructive Pulmonary Disease	8	0.0	7.5	*	12.5	12.6	*	12.5	17.1	*
Transient Cerebral Ischemia	6	0.0	0.9	*	0.0	2.0	*	0.0	3.1	*
Stroke	11	9.1	24.3	*	27.3	32.7	*	27.3	38.3	*
Hip Fracture	6	0.0	8.4	*	16.7	14.7	*	16.7	18.6	*
Sepsis	6	50.0	27.1	*	50.0	34.7	*	66.7	40.8	*
PROCEDURES:										
Angioplasty	39	7.7	4.3	*	7.7	5.4	*	10.3	6.7	*
Coronary Artery Bypass Graft	46	6.5	8.5	*	8.7	12.5	*	10.9	15.0	*
Initial Pacemaker Insertion	12	8.3	3.5	*	8.3	7.1	*	8.3	10.5	*
Carotid Endarterectomy	6	0.0	1.6	*	0.0	3.3	*	0.0	4.9	*
Hip Replacement/Reconstruction	64	0.0	1.5	2.1	1.6	2.5	2.5	1.6	3.5	2.9
Open Reduction of Hip Fracture	3	0.0	8.9	*	0.0	17.0	*	0.0	22.2	*
Prostatectomy	23	0.0	1.1	*	0.0	2.7	*	0.0	4.5	*
Cholecystectomy	17	0.0	3.4	*	0.0	7.0	*	0.0	9.9	*
Hysterectomy	34	0.0	1.8	*	5.9	3.6	*	5.9	5.1	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,720	6.2	8.3	0.7	9.9	13.4	0.9	13.4	17.5	1.0
CONDITIONS:										
Acute Myocardial Infarction	22	27.3	28.6	*	31.8	32.4	*	31.8	36.1	*
Congestive Heart Failure	28	10.7	17.7	*	17.9	27.2	*	32.1	35.1	*
Pneumonia/Influenza	12	33.3	19.3	*	50.0	26.8	*	50.0	32.5	*
Chronic Obstructive Pulmonary Disease	14	0.0	13.0	*	7.1	20.2	*	14.3	25.8	*
Transient Cerebral Ischemia	11	0.0	2.0	*	0.0	4.3	*	0.0	6.7	*
Stroke	20	25.0	33.1	*	30.0	41.9	*	35.0	47.9	*
Hip Fracture	9	11.1	8.4	*	22.2	15.5	*	22.2	20.1	*
Sepsis	8	50.0	28.9	*	62.5	36.8	*	62.5	42.4	*
PROCEDURES:										
Angioplasty	44	6.8	5.0	*	9.1	6.2	*	9.1	7.6	*
Coronary Artery Bypass Graft	39	10.3	7.5	*	12.8	10.8	*	15.4	12.7	*
Initial Pacemaker Insertion	17	0.0	4.6	*	0.0	7.9	*	0.0	10.5	*
Carotid Endarterectomy	4	0.0	1.6	*	0.0	3.0	*	0.0	4.3	*
Hip Replacement/Reconstruction	63	0.0	1.4	2.2	1.6	2.6	3.1	1.6	3.6	3.4
Open Reduction of Hip Fracture	3	33.3	11.4	*	33.3	23.2	*	33.3	31.2	*
Prostatectomy	30	3.3	1.4	*	3.3	3.4	*	6.7	5.7	*
Cholecystectomy	17	11.8	5.1	*	17.6	9.4	*	23.5	12.7	*
Hysterectomy	24	0.0	1.8	*	0.0	3.6	*	4.2	5.4	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

JACKSON COUNTY-SCHNECK MEMORIAL HOSPITAL

200 South Walnut St
Seymour, IN 47274

Medicare Provider Number: 150065

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,095	10.1	9.7	1.1	15.4	14.7	1.3	18.4	18.7	1.3
CONDITIONS:										
Acute Myocardial Infarction	40	32.5	27.4	*	37.5	30.5	*	37.5	33.7	*
Congestive Heart Failure	87	24.1	14.0	5.6	31.0	21.8	5.9	35.6	28.2	5.8
Pneumonia/Influenza	66	15.2	19.1	7.4	22.7	25.6	11.7	24.2	30.6	11.9
Chronic Obstructive Pulmonary Disease	13	7.7	10.7	*	23.1	18.4	*	38.5	24.5	*
Transient Cerebral Ischemia	14	0.0	2.5	*	7.1	5.4	*	7.1	8.5	*
Stroke	47	10.6	18.6	*	12.8	25.1	*	14.9	29.5	*
Hip Fracture	39	5.1	6.2	*	15.4	11.2	*	17.9	14.6	*
Sepsis	17	41.2	21.8	*	47.1	28.8	*	47.1	34.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	4.0	*	0.0	8.1	*	0.0	12.2	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	25	4.0	3.8	*	8.0	7.2	*	8.0	9.6	*
Open Reduction of Hip Fracture	21	4.8	5.6	*	19.0	10.5	*	23.8	13.9	*
Prostatectomy	31	0.0	0.8	*	3.2	2.0	*	3.2	3.4	*
Cholecystectomy	27	0.0	2.4	*	7.4	4.4	*	7.4	5.7	*
Hysterectomy	4	0.0	0.2	*	0.0	0.6	*	0.0	0.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	106
Occupancy Rate	58
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	32
Percent of Physicians Board Certified Specialists	78
Medical Residents/Interns	0
Registered Nurses	71
Licensed Practical Nurses	16

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

JACKSON COUNTY-SCHNECK MEMORIAL HOSPITAL

Medicare Provider Number: 150065

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	964	10.8	10.5	1.0	15.2	15.6	1.4	18.5	19.5	1.4
CONDITIONS:										
Acute Myocardial Infarction	30	33.3	30.5	*	33.3	33.9	*	36.7	37.4	*
Congestive Heart Failure	77	16.9	15.9	4.5	22.1	24.7	6.5	28.6	31.7	7.1
Pneumonia/Influenza	57	12.3	18.3	7.6	17.5	25.0	8.8	24.6	30.1	7.9
Chronic Obstructive Pulmonary Disease	8	0.0	8.6	*	50.0	16.3	*	50.0	23.3	*
Transient Cerebral Ischemia	23	4.3	2.2	*	4.3	4.6	*	4.3	7.1	*
Stroke	43	20.9	19.6	*	30.2	25.8	*	37.2	30.3	*
Hip Fracture	22	4.5	6.4	*	9.1	12.3	*	13.6	16.2	*
Sepsis	21	33.3	29.4	*	66.7	36.9	*	66.7	43.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	0.0	2.0	*	0.0	4.1	*	0.0	6.1	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	15	6.7	2.4	*	6.7	4.8	*	20.0	6.7	*
Open Reduction of Hip Fracture	11	0.0	6.1	*	0.0	12.0	*	0.0	16.2	*
Prostatectomy	35	0.0	0.9	*	0.0	2.3	*	0.0	4.0	*
Cholecystectomy	22	0.0	1.9	*	0.0	3.0	*	0.0	3.8	*
Hysterectomy	2	0.0	0.6	*	0.0	1.4	*	0.0	2.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	912	12.7	11.0	1.8	17.1	15.8	1.6	19.6	19.6	1.3
CONDITIONS:										
Acute Myocardial Infarction	29	48.3	36.3	*	51.7	40.0	*	55.2	43.7	*
Congestive Heart Failure	64	21.9	18.2	5.7	31.3	27.0	6.6	35.9	34.0	6.2
Pneumonia/Influenza	52	19.2	20.5	5.7	26.9	27.3	6.8	30.8	32.4	6.7
Chronic Obstructive Pulmonary Disease	12	33.3	16.0	*	41.7	26.4	*	41.7	33.8	*
Transient Cerebral Ischemia	9	0.0	1.9	*	11.1	4.1	*	11.1	6.5	*
Stroke	45	13.3	22.9	*	20.0	29.5	*	22.2	33.9	*
Hip Fracture	20	0.0	5.9	*	0.0	10.6	*	0.0	13.6	*
Sepsis	22	54.5	37.8	*	68.2	46.2	*	68.2	53.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	6	0.0	2.8	*	16.7	5.3	*	16.7	7.5	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	22	0.0	3.3	*	0.0	6.3	*	0.0	8.2	*
Open Reduction of Hip Fracture	6	0.0	5.3	*	0.0	9.5	*	0.0	12.2	*
Prostatectomy	22	0.0	1.0	*	0.0	2.4	*	0.0	4.0	*
Cholecystectomy	32	3.1	2.7	*	3.1	4.7	*	6.3	5.9	*
Hysterectomy	5	0.0	1.9	*	0.0	3.6	*	0.0	5.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

JASPER COUNTY HOSPITAL

1104 East Grace Street
Rensselaer, IN 47978

Medicare Provider Number: 150078

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	477	7.3	8.6	2.2	10.5	12.9	2.7	13.8	16.6	3.1
CONDITIONS:										
Acute Myocardial Infarction	20	30.0	27.6	*	35.0	30.6	*	35.0	34.3	*
Congestive Heart Failure	29	10.3	11.9	*	24.1	18.6	*	31.0	24.3	*
Pneumonia/Influenza	22	18.2	15.6	*	22.7	21.1	*	27.3	25.3	*
Chronic Obstructive Pulmonary Disease	4	0.0	7.8	*	0.0	11.9	*	0.0	15.9	*
Transient Cerebral Ischemia	12	8.3	1.8	*	8.3	4.0	*	8.3	6.3	*
Stroke	18	11.1	18.9	*	22.2	24.9	*	22.2	29.3	*
Hip Fracture	20	10.0	6.4	*	10.0	11.4	*	10.0	14.9	*
Sepsis	8	12.5	28.9	*	12.5	36.2	*	12.5	43.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	9	11.1	4.5	*	11.1	8.9	*	11.1	12.3	*
Open Reduction of Hip Fracture	9	11.1	6.9	*	11.1	12.5	*	11.1	16.0	*
Prostatectomy	22	0.0	0.9	*	0.0	2.1	*	0.0	3.5	*
Cholecystectomy	5	0.0	5.5	*	0.0	9.2	*	0.0	11.6	*
Hysterectomy	2	0.0	0.6	*	0.0	1.2	*	0.0	1.7	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	73
Occupancy Rate	58
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	12
Percent of Physicians Board Certified Specialists	100
Medical Residents/Interns	0
Registered Nurses	55
Licensed Practical Nurses	14

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

JASPER COUNTY HOSPITAL

Medicare Provider Number: 150078

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	433	11.1	9.6	2.2	15.0	14.0	2.0	18.0	17.7	1.9
CONDITIONS:										
Acute Myocardial Infarction	19	31.6	29.9	*	31.6	33.3	*	31.6	37.2	*
Congestive Heart Failure	25	24.0	15.1	*	32.0	23.8	*	40.0	31.0	*
Pneumonia/Influenza	25	20.0	18.0	*	28.0	24.3	*	32.0	29.0	*
Chronic Obstructive Pulmonary Disease	5	0.0	8.3	*	20.0	12.3	*	20.0	16.0	*
Transient Cerebral Ischemia	11	0.0	2.0	*	9.1	4.3	*	9.1	6.7	*
Stroke	19	21.1	20.7	*	26.3	27.1	*	31.6	31.9	*
Hip Fracture	17	0.0	5.8	*	11.8	11.0	*	17.6	14.7	*
Sepsis	4	50.0	28.4	*	50.0	37.8	*	50.0	45.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	13	0.0	5.3	*	15.4	10.8	*	23.1	14.7	*
Open Reduction of Hip Fracture	2	0.0	3.6	*	0.0	6.9	*	0.0	9.1	*
Prostatectomy	25	0.0	1.1	*	0.0	2.5	*	0.0	4.0	*
Cholecystectomy	9	0.0	1.5	*	0.0	3.0	*	11.1	4.2	*
Hysterectomy	1	0.0	2.4	*	0.0	5.8	*	0.0	8.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	494	8.7	8.0	1.4	13.0	12.1	1.7	15.0	15.7	1.8
CONDITIONS:										
Acute Myocardial Infarction	14	28.6	35.0	*	28.6	38.8	*	35.7	42.9	*
Congestive Heart Failure	38	23.7	16.5	*	28.9	24.7	*	34.2	31.5	*
Pneumonia/Influenza	23	17.4	15.1	*	21.7	20.5	*	21.7	25.1	*
Chronic Obstructive Pulmonary Disease	6	50.0	8.7	*	50.0	14.3	*	50.0	19.0	*
Transient Cerebral Ischemia	12	8.3	2.5	*	16.7	5.6	*	16.7	9.1	*
Stroke	22	36.4	19.7	*	36.4	26.3	*	36.4	31.2	*
Hip Fracture	19	5.3	5.4	*	5.3	9.7	*	10.5	12.8	*
Sepsis	6	16.7	19.7	*	16.7	25.9	*	33.3	31.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	9	0.0	4.2	*	0.0	8.3	*	11.1	11.4	*
Open Reduction of Hip Fracture	10	10.0	4.9	*	10.0	8.9	*	10.0	11.6	*
Prostatectomy	26	0.0	0.8	*	3.8	1.7	*	3.8	2.8	*
Cholecystectomy	10	0.0	1.8	*	0.0	3.2	*	0.0	4.2	*
Hysterectomy	5	0.0	0.4	*	0.0	0.8	*	0.0	1.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

JAY COUNTY HOSPITAL

500 W Votaw St
Portland, IN 47371

Medicare Provider Number: 150031

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	448	9.2	11.0	2.6	15.6	16.1	2.8	19.2	20.1	2.3
CONDITIONS:										
Acute Myocardial Infarction	23	30.4	34.9	*	34.8	38.5	*	34.8	42.2	*
Congestive Heart Failure	22	9.1	17.3	*	31.8	26.5	*	36.4	33.7	*
Pneumonia/Influenza	43	20.9	16.6	*	34.9	22.4	*	37.2	26.9	*
Chronic Obstructive Pulmonary Disease	10	10.0	7.3	*	10.0	12.1	*	30.0	16.3	*
Transient Cerebral Ischemia	6	0.0	2.3	*	0.0	5.1	*	0.0	8.2	*
Stroke	15	20.0	22.8	*	33.3	29.1	*	33.3	33.9	*
Hip Fracture	2	0.0	6.4	*	0.0	11.3	*	50.0	14.4	*
Sepsis	2	50.0	28.5	*	50.0	45.2	*	50.0	55.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	6	0.0	1.0	*	0.0	2.5	*	0.0	4.3	*
Cholecystectomy	5	0.0	1.3	*	0.0	2.2	*	0.0	2.9	*
Hysterectomy	4	0.0	0.6	*	0.0	1.2	*	0.0	1.7	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	65
Occupancy Rate	35
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	22
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	0
Registered Nurses	24
Licensed Practical Nurses	11

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

JAY COUNTY HOSPITAL

Medicare Provider Number: 150031

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	509	11.6	9.6	2.1	14.9	14.1	1.9	19.1	17.9	2.1
CONDITIONS:										
Acute Myocardial Infarction	17	52.9	41.0	*	58.8	44.9	*	64.7	49.3	*
Congestive Heart Failure	28	14.3	15.4	*	14.3	22.8	*	17.9	29.2	*
Pneumonia/Influenza	32	18.8	14.4	*	25.0	19.4	*	28.1	23.6	*
Chronic Obstructive Pulmonary Disease	12	25.0	15.9	*	33.3	24.8	*	33.3	31.6	*
Transient Cerebral Ischemia	5	0.0	2.1	*	0.0	4.9	*	0.0	7.9	*
Stroke	21	33.3	24.8	*	33.3	31.6	*	38.1	36.7	*
Hip Fracture	9	22.2	6.3	*	22.2	11.6	*	33.3	15.0	*
Sepsis	4	25.0	26.4	*	25.0	34.2	*	25.0	39.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	2	0.0	5.2	*	0.0	10.4	*	50.0	14.0	*
Prostatectomy	6	16.7	1.3	*	16.7	3.5	*	16.7	6.2	*
Cholecystectomy	4	0.0	3.4	*	0.0	6.3	*	0.0	8.3	*
Hysterectomy	3	0.0	0.4	*	0.0	0.7	*	0.0	0.8	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	534	11.4	10.9	1.4	15.2	15.8	1.6	20.6	19.8	1.8
CONDITIONS:										
Acute Myocardial Infarction	25	28.0	32.4	*	32.0	36.1	*	36.0	40.0	*
Congestive Heart Failure	22	13.6	14.5	*	18.2	22.0	*	22.7	28.4	*
Pneumonia/Influenza	21	19.0	17.1	*	19.0	23.0	*	33.3	27.7	*
Chronic Obstructive Pulmonary Disease	17	5.9	10.1	*	11.8	16.3	*	11.8	20.7	*
Transient Cerebral Ischemia	6	0.0	2.1	*	0.0	4.5	*	0.0	7.1	*
Stroke	24	16.7	27.7	*	29.2	34.4	*	29.2	39.4	*
Hip Fracture	7	14.3	9.1	*	28.6	15.5	*	57.1	19.4	*
Sepsis	5	20.0	26.0	*	20.0	33.4	*	20.0	39.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	2	0.0	4.2	*	0.0	8.1	*	0.0	10.8	*
Prostatectomy	0									
Cholecystectomy	5	0.0	1.8	*	0.0	3.3	*	0.0	4.2	*
Hysterectomy	1	0.0	0.2	*	0.0	0.4	*	0.0	0.7	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

JENNINGS COMMUNITY HOSPITAL

301 Henry Street
North Vernon, IN 47265

Medicare Provider Number: 150127

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	249	13.3	11.0	2.5	18.5	16.7	3.3	24.9	21.2	4.4
CONDITIONS:										
Acute Myocardial Infarction	9	33.3	21.3	*	33.3	24.3	*	44.4	27.6	*
Congestive Heart Failure	19	21.1	13.9	*	21.1	21.7	*	36.8	28.0	*
Pneumonia/Influenza	30	13.3	15.5	*	13.3	21.6	*	16.7	26.1	*
Chronic Obstructive Pulmonary Disease	2	0.0	4.3	*	0.0	8.5	*	0.0	12.6	*
Transient Cerebral Ischemia	1	0.0	3.6	*	0.0	8.7	*	0.0	14.6	*
Stroke	7	42.9	28.7	*	57.1	38.3	*	71.4	43.9	*
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	6	0.0	1.5	*	0.0	4.1	*	0.0	7.2	*
Cholecystectomy	6	16.7	2.6	*	16.7	4.6	*	33.3	6.6	*
Hysterectomy	2	0.0	0.1	*	0.0	0.1	*	0.0	0.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	48
Occupancy Rate	6
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	(Not Available)
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	(Not Available)
Registered Nurses	(Not Available)
Licensed Practical Nurses	(Not Available)

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

JENNINGS COMMUNITY HOSPITAL

Medicare Provider Number: 150127

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	311	11.6	11.7	2.8	16.4	17.2	2.3	20.6	21.6	2.8
CONDITIONS:										
Acute Myocardial Infarction	13	38.5	29.1	*	38.5	32.4	*	38.5	36.2	*
Congestive Heart Failure	22	18.2	16.5	*	18.2	25.2	*	18.2	32.4	*
Pneumonia/Influenza	45	13.3	15.0	*	22.2	20.9	*	28.9	25.6	*
Chronic Obstructive Pulmonary Disease	8	0.0	4.3	*	0.0	9.6	*	12.5	14.9	*
Transient Cerebral Ischemia	1	0.0	0.7	*	0.0	1.3	*	0.0	2.0	*
Stroke	14	7.1	18.4	*	7.1	23.4	*	14.3	27.6	*
Hip Fracture	0									
Sepsis	9	22.2	42.3	*	44.4	53.2	*	66.7	60.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	4	0.0	1.8	*	0.0	4.4	*	25.0	7.1	*
Cholecystectomy	4	0.0	5.5	*	25.0	8.7	*	25.0	11.0	*
Hysterectomy	3	0.0	0.2	*	0.0	0.3	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	306	12.1	11.6	2.0	17.3	17.2	2.3	19.9	21.5	2.8
CONDITIONS:										
Acute Myocardial Infarction	15	40.0	26.3	*	46.7	28.9	*	46.7	32.0	*
Congestive Heart Failure	16	25.0	18.7	*	31.3	28.2	*	31.3	35.6	*
Pneumonia/Influenza	34	5.9	17.0	*	8.8	23.2	*	20.6	28.2	*
Chronic Obstructive Pulmonary Disease	4	0.0	4.9	*	0.0	9.6	*	0.0	14.0	*
Transient Cerebral Ischemia	6	0.0	2.2	*	0.0	4.7	*	0.0	7.5	*
Stroke	9	55.6	29.7	*	55.6	38.3	*	66.7	43.8	*
Hip Fracture	1	0.0	5.0	*	0.0	11.1	*	0.0	16.3	*
Sepsis	5	0.0	22.8	*	0.0	27.5	*	20.0	32.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	5	0.0	1.4	*	0.0	3.3	*	0.0	5.5	*
Cholecystectomy	13	7.7	2.0	*	7.7	3.9	*	15.4	5.4	*
Hysterectomy	3	0.0	0.4	*	0.0	1.0	*	0.0	1.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

JOHNSON MEMORIAL HOSPITAL

1125 West Jefferson St
Franklin, IN 46131

Medicare Provider Number: 150001

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	990	11.6	9.3	1.5	16.9	14.2	1.7	20.1	18.0	1.7
CONDITIONS:										
Acute Myocardial Infarction	33	39.4	25.1	*	42.4	28.4	*	42.4	32.1	*
Congestive Heart Failure	59	15.3	14.6	5.4	27.1	22.9	6.7	28.8	29.7	7.1
Pneumonia/Influenza	62	21.0	15.4	7.2	25.8	21.0	6.4	29.0	25.4	6.2
Chronic Obstructive Pulmonary Disease	8	0.0	7.7	*	25.0	12.2	*	25.0	16.5	*
Transient Cerebral Ischemia	11	0.0	2.1	*	0.0	4.9	*	9.1	7.9	*
Stroke	44	18.2	16.9	*	27.3	24.0	*	29.5	28.4	*
Hip Fracture	26	7.7	6.9	*	19.2	12.7	*	23.1	16.6	*
Sepsis	11	27.3	23.6	*	45.5	31.5	*	54.5	36.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	0.0	2.3	*	0.0	4.4	*	0.0	6.4	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	7	0.0	1.3	*	14.3	3.1	*	14.3	4.6	*
Open Reduction of Hip Fracture	25	8.0	6.0	*	20.0	11.6	*	24.0	15.4	*
Prostatectomy	46	0.0	0.7	*	0.0	1.7	*	2.2	2.9	*
Cholecystectomy	18	0.0	1.1	*	0.0	1.9	*	0.0	2.5	*
Hysterectomy	8	0.0	0.4	*	0.0	0.9	*	12.5	1.4	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	148
Occupancy Rate	55
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	42
Percent of Physicians Board Certified Specialists	50
Medical Residents/Interns	0
Registered Nurses	66
Licensed Practical Nurses	16

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

JOHNSON MEMORIAL HOSPITAL

Medicare Provider Number: 150001

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,041	12.2	9.5	1.4	17.9	14.5	1.8	21.2	18.4	1.6
CONDITIONS:										
Acute Myocardial Infarction	49	28.6	28.6	*	38.8	32.0	*	38.8	35.6	*
Congestive Heart Failure	64	15.6	13.8	5.5	23.4	21.6	5.5	26.6	28.2	5.9
Pneumonia/Influenza	46	19.6	16.2	*	26.1	22.3	*	26.1	26.8	*
Chronic Obstructive Pulmonary Disease	12	8.3	9.0	*	16.7	15.1	*	16.7	19.9	*
Transient Cerebral Ischemia	11	0.0	2.3	*	0.0	5.2	*	0.0	8.3	*
Stroke	38	18.4	15.5	*	26.3	22.5	*	34.2	27.1	*
Hip Fracture	39	2.6	8.0	*	12.8	14.5	*	15.4	18.4	*
Sepsis	11	27.3	21.8	*	36.4	31.2	*	36.4	37.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	6	0.0	1.7	*	0.0	3.8	*	0.0	6.1	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	2.0	*	0.0	3.9	*	0.0	5.5	*
Open Reduction of Hip Fracture	37	2.7	7.0	*	13.5	13.3	*	16.2	17.3	*
Prostatectomy	37	0.0	1.8	*	5.4	3.1	*	8.1	4.5	*
Cholecystectomy	33	3.0	2.0	*	3.0	3.4	*	3.0	4.3	*
Hysterectomy	10	0.0	0.4	*	0.0	0.7	*	0.0	1.0	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,049	10.7	9.9	1.2	15.8	14.9	1.4	19.5	18.7	1.4
CONDITIONS:										
Acute Myocardial Infarction	46	37.0	29.9	*	47.8	34.3	*	50.0	38.4	*
Congestive Heart Failure	84	10.7	15.8	5.5	20.2	24.0	7.2	27.4	30.7	8.4
Pneumonia/Influenza	56	8.9	14.9	9.6	14.3	20.8	10.0	19.6	25.2	8.5
Chronic Obstructive Pulmonary Disease	11	27.3	10.4	*	27.3	15.9	*	27.3	20.2	*
Transient Cerebral Ischemia	11	0.0	1.2	*	0.0	2.6	*	0.0	4.1	*
Stroke	46	26.1	21.7	*	39.1	29.3	*	41.3	33.8	*
Hip Fracture	35	0.0	5.6	*	5.7	10.7	*	11.4	14.2	*
Sepsis	11	0.0	21.8	*	18.2	29.6	*	18.2	34.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	14.3	2.6	*	14.3	5.5	*	14.3	8.4	*
Carotid Endarterectomy	1	0.0	1.0	*	0.0	1.8	*	0.0	2.6	*
Hip Replacement/Reconstruction	4	0.0	1.8	*	0.0	3.9	*	0.0	5.7	*
Open Reduction of Hip Fracture	34	0.0	4.7	*	5.9	9.5	*	8.8	13.1	*
Prostatectomy	49	0.0	1.6	*	8.2	3.9	*	12.2	6.3	*
Cholecystectomy	27	7.4	5.8	*	11.1	10.1	*	11.1	12.5	*
Hysterectomy	8	0.0	0.2	*	0.0	0.3	*	0.0	0.5	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

KENDRICK MEMORIAL HOSPITAL

1201 Hadley Road
Mooresville, IN 46158

Medicare Provider Number: 150057

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	470	1.1	0.7	0.5	1.3	1.4	0.6	1.5	2.0	0.9
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	6	0.0	3.8	*	0.0	7.9	*	0.0	11.4	*
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	168	1.8	0.6	1.2	1.8	1.0	1.3	1.8	1.4	1.5
Open Reduction of Hip Fracture	1	0.0	3.0	*	0.0	6.0	*	0.0	8.1	*
Prostatectomy	2	0.0	0.6	*	0.0	1.6	*	0.0	2.9	*
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	60
Occupancy Rate	30
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	17
Percent of Physicians Board Certified Specialists	65
Medical Residents/Interns	0
Registered Nurses	34
Licensed Practical Nurses	4

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

KENDRICK MEMORIAL HOSPITAL

Medicare Provider Number: 150057

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	480	0.4	0.7	0.5	0.6	1.3	0.7	1.5	1.9	0.8
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	2	0.0	0.9	*	0.0	1.9	*	50.0	2.6	*
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	146	0.0	0.6	*	0.0	1.0	*	0.0	1.4	*
Open Reduction of Hip Fracture	2	0.0	0.8	*	0.0	1.7	*	50.0	2.4	*
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	392	0.5	0.7	0.5	0.8	1.4	0.8	0.8	2.0	1.1
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	3	0.0	1.6	*	0.0	3.5	*	0.0	5.1	*
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	115	0.9	0.6	0.9	1.7	1.1	1.2	1.7	1.5	1.2
Open Reduction of Hip Fracture	1	0.0	1.3	*	0.0	2.9	*	0.0	4.4	*
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

KINGWOOD HOSPITAL

3714 S Franklin St
Michigan City, IN 46360

Medicare Provider Number: 150083

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	13	0.0	1.7	*	0.0	4.0	*	0.0	6.6	*
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	89
Occupancy Rate	90
Ownership/Control	Private, For Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	(Not Available)
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	(Not Available)
Registered Nurses	(Not Available)
Licensed Practical Nurses	(Not Available)

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

KINGWOOD HOSPITAL

Medicare Provider Number: 150083

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	22	0.0	3.4	*	0.0	4.5	*	0.0	5.6	*
CONDITIONS:										
Acute Myocardial Infarction	1	0.0	53.3	*	0.0	57.4	*	0.0	62.6	*
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	35	0.0	2.2	*	11.4	3.7	*	14.3	5.3	*
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	1	0.0	6.7	*	0.0	11.0	*	0.0	14.3	*
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

KOSCIUSKO COMMUNITY HOSPITAL INC

2101 East Dubois Drive
Warsaw, IN 46580

Medicare Provider Number: 150133

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	725	9.1	8.1	1.1	13.0	12.0	1.4	15.9	15.2	1.4
CONDITIONS:										
Acute Myocardial Infarction	32	34.4	25.2	*	40.6	28.4	*	40.6	31.8	*
Congestive Heart Failure	45	13.3	17.0	*	22.2	25.3	*	33.3	32.1	*
Pneumonia/Influenza	28	21.4	14.3	*	21.4	19.5	*	21.4	23.8	*
Chronic Obstructive Pulmonary Disease	15	6.7	7.4	*	20.0	12.9	*	26.7	17.9	*
Transient Cerebral Ischemia	12	0.0	1.5	*	0.0	3.1	*	0.0	4.8	*
Stroke	26	15.4	21.5	*	23.1	28.5	*	26.9	33.0	*
Hip Fracture	19	5.3	5.6	*	5.3	9.6	*	5.3	12.4	*
Sepsis	8	50.0	38.8	*	50.0	45.3	*	50.0	51.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	33.3	2.2	*	33.3	4.7	*	33.3	7.0	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	16	0.0	3.3	*	0.0	6.1	*	0.0	8.1	*
Open Reduction of Hip Fracture	8	12.5	5.4	*	12.5	9.4	*	12.5	12.0	*
Prostatectomy	25	4.0	0.5	*	4.0	1.2	*	4.0	2.0	*
Cholecystectomy	16	0.0	1.2	*	0.0	2.1	*	0.0	3.0	*
Hysterectomy	9	0.0	0.3	*	0.0	0.8	*	0.0	1.2	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	113
Occupancy Rate	35
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	32
Percent of Physicians Board Certified Specialists	63
Medical Residents/Interns	0
Registered Nurses	78
Licensed Practical Nurses	8

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

KOSCIUSKO COMMUNITY HOSPITAL INC

Medicare Provider Number: 150133

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	788	11.0	7.7	1.4	15.1	11.4	1.6	17.5	14.4	1.6
CONDITIONS:										
Acute Myocardial Infarction	39	48.7	28.7	*	53.8	32.5	*	53.8	36.2	*
Congestive Heart Failure	44	29.5	14.7	*	38.6	22.1	*	45.5	28.6	*
Pneumonia/Influenza	36	11.1	14.7	*	16.7	20.2	*	16.7	24.8	*
Chronic Obstructive Pulmonary Disease	6	0.0	4.0	*	0.0	7.1	*	16.7	10.1	*
Transient Cerebral Ischemia	14	0.0	2.4	*	0.0	5.1	*	7.1	8.0	*
Stroke	31	19.4	19.4	*	29.0	25.7	*	35.5	30.2	*
Hip Fracture	36	2.8	5.2	*	5.6	9.7	*	5.6	12.8	*
Sepsis	10	40.0	26.9	*	40.0	34.0	*	40.0	39.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	3.3	*	0.0	5.9	*	0.0	8.8	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	25	0.0	3.4	*	4.0	6.4	*	4.0	8.4	*
Open Reduction of Hip Fracture	18	5.6	4.7	*	5.6	9.4	*	5.6	12.9	*
Prostatectomy	28	0.0	1.6	*	0.0	3.1	*	3.6	4.8	*
Cholecystectomy	18	5.6	2.5	*	5.6	4.2	*	5.6	5.2	*
Hysterectomy	7	0.0	0.6	*	0.0	1.2	*	0.0	1.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	767	10.0	8.7	1.5	13.7	12.6	1.5	16.3	15.8	1.4
CONDITIONS:										
Acute Myocardial Infarction	35	40.0	28.5	*	40.0	31.5	*	40.0	34.9	*
Congestive Heart Failure	40	20.0	14.9	*	30.0	22.3	*	35.0	28.6	*
Pneumonia/Influenza	34	11.8	15.7	*	14.7	21.5	*	17.6	26.3	*
Chronic Obstructive Pulmonary Disease	19	15.8	7.2	*	15.8	12.0	*	26.3	16.0	*
Transient Cerebral Ischemia	15	0.0	2.0	*	0.0	4.3	*	0.0	6.8	*
Stroke	28	14.3	24.2	*	25.0	30.1	*	35.7	34.7	*
Hip Fracture	26	7.7	8.5	*	11.5	14.9	*	11.5	18.7	*
Sepsis	8	37.5	28.1	*	37.5	33.9	*	37.5	38.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	5.4	*	0.0	8.9	*	0.0	11.6	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	20	5.0	6.0	*	10.0	10.8	*	10.0	13.6	*
Open Reduction of Hip Fracture	13	7.7	6.6	*	7.7	12.4	*	7.7	16.2	*
Prostatectomy	17	0.0	1.2	*	11.8	2.9	*	17.6	4.9	*
Cholecystectomy	21	4.8	2.8	*	4.8	5.6	*	4.8	7.7	*
Hysterectomy	8	0.0	0.7	*	0.0	1.5	*	0.0	2.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

LA PORTE HOSPITAL

State and Madison Ave
La Porte, IN 46350

Medicare Provider Number: 150006

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,325	9.4	9.0	0.8	14.2	13.1	1.1	18.0	16.4	1.3
CONDITIONS:										
Acute Myocardial Infarction	50	28.0	30.1	*	34.0	33.1	*	34.0	36.5	*
Congestive Heart Failure	55	18.2	15.5	5.0	30.9	24.0	6.5	41.8	30.9	9.5
Pneumonia/Influenza	103	18.4	16.0	4.7	26.2	21.7	5.6	28.2	26.1	5.0
Chronic Obstructive Pulmonary Disease	32	3.1	4.7	*	12.5	9.2	*	21.9	13.5	*
Transient Cerebral Ischemia	21	9.5	1.7	*	9.5	3.6	*	19.0	5.5	*
Stroke	51	17.6	22.7	8.0	23.5	29.2	11.1	27.5	33.8	11.5
Hip Fracture	32	12.5	6.1	*	21.9	10.8	*	28.1	14.1	*
Sepsis	26	26.9	25.2	*	34.6	32.5	*	34.6	38.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	22	9.1	4.1	*	9.1	6.5	*	13.6	9.0	*
Carotid Endarterectomy	12	0.0	1.4	*	0.0	2.6	*	0.0	3.9	*
Hip Replacement/Reconstruction	20	10.0	4.7	*	20.0	7.9	*	25.0	10.1	*
Open Reduction of Hip Fracture	17	11.8	6.1	*	23.5	11.5	*	29.4	15.3	*
Prostatectomy	77	2.6	1.0	1.6	5.2	2.2	2.9	6.5	3.5	4.4
Cholecystectomy	24	0.0	2.4	*	0.0	4.0	*	0.0	4.8	*
Hysterectomy	9	0.0	0.3	*	0.0	0.7	*	0.0	1.1	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	227
Occupancy Rate	51
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	77
Percent of Physicians Board Certified Specialists	58
Medical Residents/Interns	0
Registered Nurses	198
Licensed Practical Nurses	32

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	Yes
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

LA PORTE HOSPITAL

Medicare Provider Number: 150006

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,415	10.2	9.1	0.9	14.3	13.3	1.1	18.0	16.6	1.3
CONDITIONS:										
Acute Myocardial Infarction	53	41.5	28.6	12.3	41.5	31.6	11.2	45.3	35.1	10.9
Congestive Heart Failure	52	9.6	15.7	9.3	13.5	23.9	12.2	23.1	30.9	11.2
Pneumonia/Influenza	100	13.0	15.3	5.7	21.0	21.1	4.4	26.0	25.7	4.5
Chronic Obstructive Pulmonary Disease	28	3.6	4.9	*	10.7	9.1	*	17.9	12.9	*
Transient Cerebral Ischemia	22	0.0	2.0	*	0.0	4.3	*	0.0	6.5	*
Stroke	55	32.7	20.8	8.5	34.5	26.9	10.3	45.5	31.4	10.8
Hip Fracture	34	2.9	5.4	*	2.9	9.8	*	5.9	12.9	*
Sepsis	22	27.3	35.0	*	36.4	42.5	*	40.9	49.1	*
PROCEDURES:										
Angioplasty	1	0.0	1.2	*	0.0	1.8	*	0.0	2.7	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	25.0	11.0	*	50.0	14.6	*	50.0	17.9	*
Carotid Endarterectomy	12	8.3	1.2	*	25.0	2.4	*	25.0	3.4	*
Hip Replacement/Reconstruction	25	0.0	4.2	*	0.0	7.9	*	4.0	10.5	*
Open Reduction of Hip Fracture	9	0.0	3.7	*	0.0	7.1	*	0.0	9.5	*
Prostatectomy	100	1.0	0.8	0.9	1.0	1.8	1.9	4.0	3.0	2.2
Cholecystectomy	23	4.3	2.4	*	4.3	4.0	*	4.3	5.3	*
Hysterectomy	12	0.0	0.7	*	0.0	1.4	*	0.0	2.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,291	10.1	8.9	1.1	14.3	13.4	1.1	17.4	17.0	1.2
CONDITIONS:										
Acute Myocardial Infarction	54	40.7	28.8	8.6	46.3	32.4	9.4	50.0	36.2	10.5
Congestive Heart Failure	63	15.9	17.6	5.5	22.2	26.7	9.0	27.0	34.0	10.7
Pneumonia/Influenza	59	18.6	16.6	6.8	23.7	22.7	7.7	23.7	27.6	10.2
Chronic Obstructive Pulmonary Disease	31	9.7	7.3	*	12.9	12.9	*	22.6	17.5	*
Transient Cerebral Ischemia	36	2.8	2.0	*	8.3	4.2	*	8.3	6.6	*
Stroke	57	21.1	21.7	5.7	24.6	27.6	6.9	26.3	32.1	9.8
Hip Fracture	30	0.0	6.6	*	10.0	11.7	*	16.7	15.0	*
Sepsis	28	35.7	28.9	*	42.9	38.9	*	42.9	46.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	19	10.5	4.1	*	15.8	7.2	*	15.8	9.7	*
Carotid Endarterectomy	10	0.0	1.6	*	0.0	3.1	*	0.0	4.5	*
Hip Replacement/Reconstruction	26	0.0	4.2	*	11.5	7.9	*	11.5	10.4	*
Open Reduction of Hip Fracture	14	0.0	4.8	*	0.0	9.2	*	14.3	12.2	*
Prostatectomy	54	1.9	1.0	1.6	5.6	2.5	2.6	7.4	4.3	3.2
Cholecystectomy	24	8.3	2.3	*	8.3	4.4	*	12.5	6.3	*
Hysterectomy	11	0.0	0.3	*	0.0	0.5	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

LAFAYETTE HOME HOSPITAL INC

2400 South St
Lafayette, IN 47902

Medicare Provider Number: 150109

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,848	9.6	7.4	0.8	14.0	11.3	1.0	17.1	14.4	1.1
CONDITIONS:										
Acute Myocardial Infarction	54	31.5	27.2	7.1	33.3	30.3	7.1	37.0	33.7	7.2
Congestive Heart Failure	85	20.0	14.3	6.7	28.2	22.6	8.0	36.5	29.2	8.7
Pneumonia/Influenza	75	18.7	13.7	5.4	25.3	19.0	7.8	32.0	23.4	8.8
Chronic Obstructive Pulmonary Disease	23	8.7	5.7	*	13.0	10.4	*	21.7	14.7	*
Transient Cerebral Ischemia	14	0.0	1.5	*	0.0	3.2	*	0.0	5.1	*
Stroke	59	22.0	18.9	5.5	22.0	25.1	6.1	28.8	29.5	6.0
Hip Fracture	82	8.5	4.5	3.3	11.0	8.6	3.4	12.2	11.7	3.8
Sepsis	17	41.2	27.8	*	41.2	36.4	*	52.9	43.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	8	0.0	7.8	*	0.0	11.2	*	0.0	13.6	*
Carotid Endarterectomy	9	0.0	1.6	*	0.0	2.9	*	0.0	4.2	*
Hip Replacement/Reconstruction	73	1.4	1.6	1.5	1.4	3.2	2.5	2.7	4.5	3.2
Open Reduction of Hip Fracture	22	9.1	3.9	*	9.1	7.5	*	9.1	10.1	*
Prostatectomy	99	1.0	0.8	2.7	5.1	1.9	1.9	5.1	3.2	2.4
Cholecystectomy	42	2.4	2.2	*	4.8	4.2	*	9.5	5.8	*
Hysterectomy	18	5.6	0.3	*	5.6	0.5	*	11.1	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	377
Occupancy Rate	58
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	190
Percent of Physicians Board Certified Specialists	71
Medical Residents/Interns	0
Registered Nurses	282
Licensed Practical Nurses	26

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

LAFAYETTE HOME HOSPITAL INC

Medicare Provider Number: 150109

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,853	10.6	8.3	0.7	16.6	12.5	1.3	20.2	15.9	0.9
CONDITIONS:										
Acute Myocardial Infarction	45	31.1	24.7	*	42.2	28.1	*	42.2	31.7	*
Congestive Heart Failure	77	28.6	14.8	5.8	42.9	23.0	7.3	49.4	29.7	7.5
Pneumonia/Influenza	85	25.9	16.0	5.3	37.6	22.1	6.8	40.0	26.9	7.2
Chronic Obstructive Pulmonary Disease	34	8.8	5.2	*	17.6	9.2	*	17.6	12.9	*
Transient Cerebral Ischemia	15	0.0	1.6	*	0.0	3.5	*	0.0	5.5	*
Stroke	69	17.4	19.2	5.9	24.6	25.0	6.2	30.4	29.5	5.8
Hip Fracture	75	10.7	5.1	4.1	16.0	9.6	4.9	21.3	12.7	6.2
Sepsis	23	26.1	29.8	*	47.8	37.0	*	56.5	44.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	11	9.1	2.5	*	9.1	5.3	*	9.1	8.2	*
Carotid Endarterectomy	9	0.0	1.2	*	0.0	2.1	*	0.0	3.1	*
Hip Replacement/Reconstruction	74	6.8	2.2	2.8	8.1	4.2	3.3	8.1	5.7	3.8
Open Reduction of Hip Fracture	22	4.5	4.2	*	13.6	8.3	*	18.2	11.2	*
Prostatectomy	118	1.7	0.6	1.0	2.5	1.5	1.9	4.2	2.4	2.7
Cholecystectomy	41	7.3	2.4	*	7.3	4.2	*	7.3	5.3	*
Hysterectomy	23	0.0	0.4	*	0.0	0.8	*	0.0	1.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,797	10.2	8.0	1.0	14.2	12.1	1.0	17.3	15.5	1.1
CONDITIONS:										
Acute Myocardial Infarction	50	36.0	25.5	*	38.0	28.9	*	40.0	32.6	*
Congestive Heart Failure	82	24.4	14.6	6.0	30.5	22.7	5.8	35.4	29.6	6.1
Pneumonia/Influenza	69	23.2	16.2	10.3	27.5	22.5	10.0	31.9	27.6	8.7
Chronic Obstructive Pulmonary Disease	29	17.2	8.6	*	20.7	14.9	*	34.5	20.0	*
Transient Cerebral Ischemia	22	9.1	1.4	*	13.6	3.0	*	13.6	4.8	*
Stroke	82	19.5	18.8	7.6	28.0	25.0	8.0	31.7	29.8	7.1
Hip Fracture	59	10.2	5.0	4.5	15.3	9.5	6.4	18.6	12.8	7.9
Sepsis	27	40.7	28.6	*	51.9	35.3	*	51.9	41.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	10	10.0	6.9	*	10.0	10.4	*	10.0	13.2	*
Carotid Endarterectomy	5	0.0	1.2	*	0.0	2.1	*	0.0	3.0	*
Hip Replacement/Reconstruction	53	3.8	2.0	2.7	3.8	3.8	2.8	3.8	5.2	3.5
Open Reduction of Hip Fracture	12	8.3	4.0	*	16.7	8.1	*	16.7	11.2	*
Prostatectomy	90	1.1	1.0	2.2	4.4	2.5	2.3	5.6	4.2	2.9
Cholecystectomy	41	2.4	2.1	*	4.9	3.9	*	7.3	5.1	*
Hysterectomy	18	0.0	0.5	*	0.0	0.8	*	0.0	1.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

LAGRANGE HOSPITAL

RR5 Box 79
Lagrange, IN 46761

Medicare Provider Number: 150096

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	310	14.5	10.0	2.5	20.0	14.6	3.0	23.2	18.3	3.1
CONDITIONS:										
Acute Myocardial Infarction	13	30.8	31.7	*	38.5	35.4	*	38.5	39.8	*
Congestive Heart Failure	18	44.4	20.8	*	61.1	31.0	*	61.1	38.8	*
Pneumonia/Influenza	21	23.8	16.9	*	28.6	23.7	*	33.3	28.9	*
Chronic Obstructive Pulmonary Disease	6	0.0	6.4	*	0.0	11.0	*	0.0	15.0	*
Transient Cerebral Ischemia	7	0.0	1.5	*	0.0	3.3	*	0.0	5.2	*
Stroke	14	28.6	17.8	*	42.9	24.2	*	42.9	28.6	*
Hip Fracture	6	0.0	4.4	*	16.7	8.6	*	16.7	11.7	*
Sepsis	5	20.0	31.7	*	20.0	38.3	*	20.0	44.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	5.7	*	0.0	10.7	*	0.0	14.2	*
Open Reduction of Hip Fracture	0									
Prostatectomy	11	0.0	0.6	*	0.0	1.5	*	9.1	2.5	*
Cholecystectomy	7	0.0	1.1	*	0.0	1.9	*	0.0	2.5	*
Hysterectomy	1	0.0	0.0	*	0.0	0.0	*	0.0	0.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	62
Occupancy Rate	45
Ownership/Control	Private, For Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	11
Percent of Physicians Board Certified Specialists	9
Medical Residents/Interns	0
Registered Nurses	17
Licensed Practical Nurses	9

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	Yes
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

LAGRANGE HOSPITAL

Medicare Provider Number: 150096

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	300	13.7	10.1	3.4	16.7	14.7	2.7	19.0	18.5	2.3
CONDITIONS:										
Acute Myocardial Infarction	6	33.3	36.9	*	33.3	40.6	*	33.3	45.0	*
Congestive Heart Failure	19	10.5	13.4	*	10.5	20.8	*	15.8	27.1	*
Pneumonia/Influenza	55	25.5	17.3	10.5	29.1	23.4	10.6	32.7	28.3	9.4
Chronic Obstructive Pulmonary Disease	3	0.0	3.9	*	0.0	6.9	*	0.0	9.8	*
Transient Cerebral Ischemia	6	0.0	2.6	*	0.0	6.3	*	16.7	10.3	*
Stroke	15	26.7	24.2	*	46.7	31.6	*	46.7	36.8	*
Hip Fracture	4	0.0	4.9	*	0.0	9.3	*	0.0	12.2	*
Sepsis	6	33.3	26.4	*	33.3	31.3	*	33.3	37.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	6.2	*	0.0	11.9	*	0.0	15.6	*
Open Reduction of Hip Fracture	0									
Prostatectomy	4	0.0	0.7	*	0.0	1.7	*	0.0	2.8	*
Cholecystectomy	6	0.0	3.1	*	0.0	5.9	*	0.0	7.9	*
Hysterectomy	2	50.0	1.2	*	50.0	2.9	*	50.0	4.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	290	11.4	8.2	2.6	15.9	12.2	2.9	17.6	15.7	2.7
CONDITIONS:										
Acute Myocardial Infarction	9	22.2	24.4	*	33.3	27.6	*	33.3	31.2	*
Congestive Heart Failure	20	35.0	13.5	*	35.0	21.1	*	35.0	27.5	*
Pneumonia/Influenza	33	12.1	13.9	*	21.2	19.0	*	21.2	23.5	*
Chronic Obstructive Pulmonary Disease	8	0.0	5.3	*	0.0	9.3	*	0.0	12.8	*
Transient Cerebral Ischemia	4	0.0	1.5	*	0.0	3.3	*	0.0	5.3	*
Stroke	8	37.5	19.3	*	50.0	25.7	*	50.0	30.5	*
Hip Fracture	4	0.0	6.5	*	25.0	12.2	*	25.0	16.6	*
Sepsis	2	0.0	39.7	*	0.0	46.2	*	0.0	53.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	3.9	*	0.0	7.1	*	0.0	9.6	*
Open Reduction of Hip Fracture	0									
Prostatectomy	13	0.0	0.8	*	0.0	1.8	*	0.0	3.0	*
Cholecystectomy	4	0.0	1.1	*	0.0	2.0	*	0.0	2.8	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

LaGrange Hospital
107.1
Route 5, Box 79 • LaGrange, Indiana [illegible] • (219) 463-2143 • Fax (219) 463-3190

January 15, 1991

Mrs. Sandra Kappert
Health Standards and Quality Bureau
2-D-2 Meadows East Building
6325 Security Blvd.
Baltimore, Maryland 21207

Dear Ms. Kappert:

Thank you for the opportunity to respond to the 1989 Medicare Hospital mortality rates for LaGrange Hospital.

In reviewing the data I made the following observations.

1. There were a total of 310 Medicare cases of which 92 died at some time within 180 days of discharge from LaGrange Hospital.

2. In reviewing the rate sheet it initially appeared that our observed mortality rates for all causes for 30, 90, and 180 days were above the predicted rate. After reviewing all of the enclosed material, however, and figuring the predicted ranges I found that all of our observed rates were within the predicted ranges, which are not published. The predicted ranges for all causes (with a 95% confidence level) are as follows:

30 days	5.1 - 14.9
90 days	8.7 - 20.5
180 days	12.2 - 24.4

3. In the conditions listing, there were too few cases in every category to be statistically valid. As you state in your instructions, "The precision and interpretability of our estimates are questionable when there are no deaths or 50 or fewer cases in a particular category."

In reviewing the medical records of all of the patients involved I made the following observations:

1. The average age of all male Medicare deaths here was 77.5 years and for females was 81.5 years. This compares favorably when you consider that the average life expectancy for males is 71.5 and for females is 78.3.

2. Only 34 of the 92 deaths occurred here at the hospital.

3. 36 of the 92 patients who died were transferred here from a nursing home in an already debilitated condition.

In closing I want to point out that each death here at LaGrange Hospital is reviewed by a team of physicians and the hospital quality assurance committee. I am confident that quality healthcare is being practiced here at LaGrange Hospital.

Thank you again for this opportunity to respond.

Sincerely,

Joseph a Stuber

Joseph A. Stuber
Administrator

JAS/db

LUTHERAN HOSPITAL OF INDIANA INC

3024 Fairfield Ave
Fort Wayne, IN 46807

Medicare Provider Number: 150017

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,791	8.9	7.6	0.8	13.0	11.4	0.7	16.4	14.6	0.8
CONDITIONS:										
Acute Myocardial Infarction	101	30.7	26.6	5.3	35.6	29.6	5.1	36.6	32.8	5.0
Congestive Heart Failure	154	12.3	13.3	4.3	20.1	20.9	4.0	28.6	27.3	3.9
Pneumonia/Influenza	84	19.0	17.0	6.5	32.1	23.3	8.4	32.1	28.2	6.4
Chronic Obstructive Pulmonary Disease	31	6.5	5.5	*	6.5	10.6	*	16.1	15.3	*
Transient Cerebral Ischemia	40	0.0	1.7	*	5.0	3.8	*	7.5	6.0	*
Stroke	125	22.4	21.0	4.1	28.0	27.6	4.1	33.6	32.0	4.6
Hip Fracture	137	5.8	5.9	2.4	8.8	11.0	4.0	11.7	14.5	4.4
Sepsis	38	28.9	26.3	*	34.2	35.4	*	34.2	42.0	*
PROCEDURES:										
Angioplasty	54	3.7	2.7	2.6	5.6	3.4	2.9	5.6	4.2	3.4
Coronary Artery Bypass Graft	104	3.8	4.1	2.0	5.8	5.8	3.1	5.8	6.9	3.1
Initial Pacemaker Insertion	44	6.8	2.8	*	9.1	5.3	*	13.6	7.5	*
Carotid Endarterectomy	18	0.0	1.1	*	0.0	2.1	*	0.0	3.1	*
Hip Replacement/Reconstruction	132	0.8	2.3	1.8	0.8	4.6	3.0	3.0	6.2	3.0
Open Reduction of Hip Fracture	59	5.1	5.9	3.2	10.2	11.2	4.9	10.2	14.9	6.0
Prostatectomy	96	3.1	0.6	2.0	3.1	1.4	1.9	4.2	2.5	2.9
Cholecystectomy	60	3.3	3.2	2.3	5.0	5.2	2.9	6.7	6.6	3.2
Hysterectomy	44	0.0	0.3	*	0.0	0.5	*	0.0	0.7	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	441
Occupancy Rate	73
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	210
Percent of Physicians Board Certified Specialists	70
Medical Residents/Interns	9
Registered Nurses	503
Licensed Practical Nurses	64

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	Yes
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

LUTHERAN HOSPITAL OF INDIANA INC

Medicare Provider Number: 150017

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	3,653	8.8	7.4	0.6	13.9	11.4	1.0	16.5	14.6	0.8
CONDITIONS:										
Acute Myocardial Infarction	88	22.7	23.3	4.5	26.1	26.4	4.7	28.4	29.6	5.1
Congestive Heart Failure	170	18.8	15.1	3.6	29.4	23.2	4.8	33.5	30.0	4.2
Pneumonia/Influenza	65	21.5	18.2	8.7	33.8	25.1	8.8	33.8	30.1	6.7
Chronic Obstructive Pulmonary Disease	30	13.3	5.1	*	20.0	9.7	*	20.0	13.7	*
Transient Cerebral Ischemia	46	4.3	1.7	*	6.5	3.7	*	10.9	5.8	*
Stroke	107	20.6	21.0	4.9	30.8	27.7	4.9	31.8	32.4	4.6
Hip Fracture	108	5.6	6.5	3.7	13.0	12.1	3.6	14.8	15.7	3.6
Sepsis	38	26.3	27.1	*	44.7	36.5	*	60.5	42.9	*
PROCEDURES:										
Angioplasty	35	5.7	3.5	*	5.7	4.3	*	5.7	5.2	*
Coronary Artery Bypass Graft	89	7.9	5.5	3.1	15.7	7.6	4.7	15.7	8.9	4.6
Initial Pacemaker Insertion	47	4.3	3.6	*	6.4	6.6	*	12.8	9.3	*
Carotid Endarterectomy	16	0.0	1.3	*	0.0	2.4	*	0.0	3.6	*
Hip Replacement/Reconstruction	102	2.9	1.9	1.8	3.9	3.8	1.9	4.9	5.1	2.2
Open Reduction of Hip Fracture	61	3.3	6.0	3.8	9.8	11.5	5.1	11.5	15.3	6.9
Prostatectomy	98	1.0	0.7	0.9	3.1	1.7	1.8	3.1	2.9	1.8
Cholecystectomy	63	1.6	4.6	4.7	6.3	7.2	6.0	6.3	8.7	4.9
Hysterectomy	39	0.0	0.7	*	0.0	1.5	*	0.0	2.1	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	3,625	8.7	7.5	0.6	13.4	11.4	1.0	16.0	14.6	0.8
CONDITIONS:										
Acute Myocardial Infarction	79	24.1	25.4	6.1	29.1	29.4	5.7	31.6	32.9	5.5
Congestive Heart Failure	150	19.3	14.7	6.2	26.7	22.5	6.2	32.7	29.1	5.4
Pneumonia/Influenza	63	23.8	17.4	7.9	27.0	23.9	8.5	30.2	29.2	6.2
Chronic Obstructive Pulmonary Disease	43	11.6	8.2	*	20.9	13.8	*	20.9	18.5	*
Transient Cerebral Ischemia	44	0.0	1.6	*	0.0	3.4	*	4.5	5.3	*
Stroke	108	23.1	23.2	4.5	31.5	30.1	5.2	34.3	34.7	5.4
Hip Fracture	104	8.7	6.3	5.1	18.3	11.7	7.3	20.2	15.4	7.1
Sepsis	30	23.3	29.6	*	33.3	37.2	*	43.3	43.5	*
PROCEDURES:										
Angioplasty	33	0.0	3.1	*	0.0	4.0	*	3.0	5.1	*
Coronary Artery Bypass Graft	100	9.0	4.5	3.8	11.0	6.5	4.2	13.0	7.8	5.0
Initial Pacemaker Insertion	31	6.5	3.2	*	6.5	6.0	*	12.9	8.5	*
Carotid Endarterectomy	18	5.6	1.7	*	5.6	3.3	*	11.1	5.0	*
Hip Replacement/Reconstruction	89	4.5	1.9	3.2	5.6	3.7	3.3	6.7	5.1	3.3
Open Reduction of Hip Fracture	53	5.7	5.9	3.3	11.3	11.4	4.4	13.2	15.1	5.3
Prostatectomy	121	0.8	0.8	0.9	0.8	1.8	1.5	1.7	2.9	2.0
Cholecystectomy	78	5.1	4.7	2.5	7.7	7.1	4.3	10.3	8.6	6.3
Hysterectomy	30	0.0	0.4	*	3.3	0.9	*	3.3	1.5	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

109.1

#15-0017

THE LUTHERAN HOSPITAL
OF INDIANA, INC.

January 15, 1991

Mrs. Sandra Kappert
Health Standards & Quality Bureau
Health Care Financing Administration
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, MD 21207

Dear Mrs. Kappert:

The following information for The Lutheran Hospital of Indiana, Inc., is to be attached to the Hospital Specific Report for the 1989 review period, prior to public disclosure.

In our evaluation of the hospital specific mortality data, we maintain that this information can only be properly interpreted in conjunction with our ongoing case review process. The medical staff at The Lutheran Hospital of Indiana, Inc., conducts an intensive review of the medical management and care of every patient at this facility. Mortality review is a component of the ongoing Quality Management Program and, combined with peer review, is an integral part of monitoring the health care delivery system at the hospital. It is in this kind of individual case review, that the quality of care is thoroughly evaluated. However, aggregate statistics, such as the mortality data, can be useful in suggesting areas for quality review.

Since the mortality data is best used as a screening tool in the quality assessment process, The Lutheran Hospital of Indiana, Inc., does not recommend that patients use this information as their only basis for hospital choice. However, we do recommend that patients continue to discuss this information, and their hospital selection, with their personal physician.

3024 Fairfield
Fort Wayne, IN 46807-1697
219-458-2001

The medical and hospital staff, as has been their practice, will continue to review all cases, including mortality cases, for quality and appropriateness of care. This review practice reflects The Lutheran Hospital of Indiana, Inc., continuing mission to identify opportunities to improve patient care.

Respectfully,

Robert F. Cottrell, M.D.
Vice President & Chief
Medical Officer

/lb

MAJOR HOSPITAL

150 West Washington Street
Shelbyville, IN 46176

Medicare Provider Number: 150097

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	770	10.4	9.4	1.3	15.5	14.1	1.8	19.1	17.8	2.5
CONDITIONS:										
Acute Myocardial Infarction	30	40.0	34.1	*	43.3	37.8	*	43.3	41.5	*
Congestive Heart Failure	48	12.5	13.6	*	22.9	21.9	*	33.3	28.7	*
Pneumonia/Influenza	59	11.9	15.8	8.6	20.3	21.7	5.8	25.4	26.2	5.9
Chronic Obstructive Pulmonary Disease	28	7.1	5.1	*	14.3	9.2	*	21.4	12.9	*
Transient Cerebral Ischemia	14	0.0	1.9	*	7.1	4.2	*	7.1	6.7	*
Stroke	32	21.9	21.5	*	31.3	29.6	*	31.3	34.4	*
Hip Fracture	16	12.5	4.9	*	18.8	9.2	*	18.8	12.3	*
Sepsis	8	50.0	36.1	*	62.5	44.4	*	62.5	52.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	100.0	3.5	*	100.0	6.8	*	100.0	9.3	*
Open Reduction of Hip Fracture	9	0.0	4.4	*	0.0	8.6	*	0.0	11.7	*
Prostatectomy	20	0.0	1.2	*	0.0	3.0	*	0.0	4.9	*
Cholecystectomy	18	0.0	1.6	*	0.0	2.7	*	0.0	3.3	*
Hysterectomy	5	0.0	0.3	*	0.0	0.7	*	0.0	1.0	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	73
Occupancy Rate	52
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	25
Percent of Physicians Board Certified Specialists	64
Medical Residents/Interns	0
Registered Nurses	50
Licensed Practical Nurses	15

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

MAJOR HOSPITAL

Medicare Provider Number: 150097

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	753	11.3	9.5	1.4	16.9	14.4	1.7	20.1	18.3	2.4
CONDITIONS:										
Acute Myocardial Infarction	25	44.0	28.0	*	44.0	31.3	*	44.0	34.7	*
Congestive Heart Failure	42	19.0	14.7	*	28.6	22.9	*	35.7	29.7	*
Pneumonia/Influenza	59	11.9	15.8	6.4	22.0	21.5	5.4	25.4	25.8	6.2
Chronic Obstructive Pulmonary Disease	12	0.0	5.3	*	16.7	10.5	*	16.7	15.2	*
Transient Cerebral Ischemia	22	4.5	2.2	*	4.5	5.1	*	4.5	8.2	*
Stroke	30	30.0	24.1	*	33.3	32.3	*	36.7	37.3	*
Hip Fracture	12	0.0	5.0	*	8.3	9.4	*	8.3	12.4	*
Sepsis	3	33.3	27.8	*	33.3	34.7	*	33.3	42.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	9	0.0	4.7	*	0.0	9.3	*	0.0	12.5	*
Prostatectomy	22	0.0	0.5	*	0.0	1.3	*	0.0	2.1	*
Cholecystectomy	18	5.6	3.1	*	5.6	5.9	*	11.1	8.0	*
Hysterectomy	5	0.0	0.1	*	0.0	0.2	*	0.0	0.2	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	749	10.3	9.8	1.1	14.7	14.8	1.5	17.2	18.8	1.5
CONDITIONS:										
Acute Myocardial Infarction	25	12.0	22.0	*	24.0	25.1	*	24.0	28.3	*
Congestive Heart Failure	38	7.9	13.5	*	7.9	20.7	*	15.8	26.9	*
Pneumonia/Influenza	57	21.1	17.7	6.9	26.3	24.0	6.0	28.1	28.9	6.3
Chronic Obstructive Pulmonary Disease	14	0.0	6.5	*	14.3	11.5	*	14.3	15.8	*
Transient Cerebral Ischemia	20	0.0	2.0	*	0.0	4.2	*	0.0	6.7	*
Stroke	37	27.0	23.6	*	29.7	29.8	*	29.7	34.3	*
Hip Fracture	26	7.7	6.9	*	19.2	12.3	*	19.2	16.0	*
Sepsis	5	20.0	29.7	*	20.0	34.3	*	40.0	39.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	0.0	5.9	*	0.0	12.2	*	0.0	17.5	*
Carotid Endarterectomy	2	0.0	1.0	*	0.0	1.7	*	0.0	2.4	*
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	17	5.9	6.2	*	17.6	11.4	*	17.6	14.9	*
Prostatectomy	18	0.0	0.9	*	0.0	2.2	*	0.0	3.8	*
Cholecystectomy	8	0.0	2.9	*	0.0	5.7	*	0.0	7.6	*
Hysterectomy	4	0.0	3.7	*	25.0	7.4	*	25.0	11.2	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

MARGARET MARY COMMUNITY HOSPITAL

321 Mitchel Avenue
Batesville, IN 47006

Medicare Provider Number: 150122

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	458	10.7	11.0	2.0	14.6	16.1	2.7	18.8	20.1	2.6
CONDITIONS:										
Acute Myocardial Infarction	12	16.7	29.9	*	25.0	32.7	*	25.0	35.9	*
Congestive Heart Failure	38	18.4	16.0	*	23.7	24.6	*	34.2	31.3	*
Pneumonia/Influenza	42	14.3	16.2	*	19.0	22.0	*	21.4	26.7	*
Chronic Obstructive Pulmonary Disease	10	0.0	5.7	*	10.0	10.5	*	10.0	14.6	*
Transient Cerebral Ischemia	11	0.0	1.9	*	0.0	4.2	*	0.0	6.8	*
Stroke	28	25.0	20.3	*	25.0	26.5	*	32.1	31.1	*
Hip Fracture	16	6.3	7.1	*	12.5	12.7	*	12.5	16.5	*
Sepsis	10	20.0	25.7	*	30.0	35.3	*	30.0	41.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	6	16.7	5.7	*	16.7	10.7	*	16.7	14.1	*
Open Reduction of Hip Fracture	5	0.0	4.4	*	20.0	8.5	*	20.0	11.5	*
Prostatectomy	5	0.0	1.7	*	0.0	4.4	*	0.0	7.3	*
Cholecystectomy	5	0.0	1.0	*	0.0	1.6	*	0.0	2.1	*
Hysterectomy	1	0.0	0.2	*	0.0	0.4	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	106
Occupancy Rate	59
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	13
Percent of Physicians Board Certified Specialists	38
Medical Residents/Interns	0
Registered Nurses	30
Licensed Practical Nurses	13

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MARGARET MARY COMMUNITY HOSPITAL

Medicare Provider Number: 150122

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	420	9.8	10.5	1.7	14.8	15.4	2.0	16.7	19.3	3.0
CONDITIONS:										
Acute Myocardial Infarction	22	18.2	29.4	*	22.7	32.5	*	22.7	36.0	*
Congestive Heart Failure	34	11.8	14.9	*	17.6	22.9	*	20.6	29.5	*
Pneumonia/Influenza	39	15.4	17.0	*	28.2	23.0	*	33.3	27.7	*
Chronic Obstructive Pulmonary Disease	7	0.0	6.2	*	14.3	11.6	*	14.3	16.1	*
Transient Cerebral Ischemia	11	0.0	2.4	*	9.1	5.4	*	9.1	8.6	*
Stroke	18	16.7	18.8	*	16.7	24.6	*	16.7	29.0	*
Hip Fracture	12	8.3	7.3	*	33.3	13.6	*	41.7	17.7	*
Sepsis	6	50.0	32.9	*	50.0	40.5	*	50.0	46.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	0.0	6.9	*	33.3	13.0	*	33.3	16.8	*
Open Reduction of Hip Fracture	6	16.7	7.2	*	50.0	14.0	*	66.7	18.5	*
Prostatectomy	2	0.0	0.6	*	0.0	1.3	*	0.0	2.1	*
Cholecystectomy	17	0.0	2.7	*	5.9	5.4	*	5.9	7.5	*
Hysterectomy	3	0.0	0.9	*	0.0	1.9	*	0.0	2.5	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	442	11.1	9.9	2.5	15.8	14.7	2.4	19.2	18.6	2.1
CONDITIONS:										
Acute Myocardial Infarction	14	28.6	33.5	*	28.6	37.0	*	28.6	41.1	*
Congestive Heart Failure	32	18.8	16.0	*	31.3	24.6	*	40.6	31.7	*
Pneumonia/Influenza	33	24.2	17.9	*	36.4	24.1	*	36.4	29.1	*
Chronic Obstructive Pulmonary Disease	13	0.0	5.2	*	0.0	8.9	*	0.0	12.1	*
Transient Cerebral Ischemia	12	0.0	2.4	*	8.3	5.2	*	8.3	8.3	*
Stroke	23	26.1	20.9	*	26.1	26.7	*	30.4	31.3	*
Hip Fracture	15	13.3	6.2	*	20.0	11.1	*	33.3	14.3	*
Sepsis	4	25.0	24.8	*	25.0	30.8	*	25.0	35.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	25.0	4.4	*	25.0	8.4	*	25.0	11.1	*
Open Reduction of Hip Fracture	5	20.0	7.9	*	20.0	14.7	*	40.0	18.9	*
Prostatectomy	6	0.0	1.4	*	0.0	3.3	*	0.0	5.2	*
Cholecystectomy	10	0.0	1.2	*	0.0	2.1	*	10.0	2.8	*
Hysterectomy	2	0.0	0.1	*	0.0	0.3	*	0.0	0.5	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

MARION GENERAL HOSPITAL

Wabash at Euclid Avenue
Marion, IN 46952

Medicare Provider Number: 150011

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,213	10.3	8.2	0.8	14.6	12.5	1.0	17.4	16.1	0.9
CONDITIONS:										
Acute Myocardial Infarction	51	23.5	26.0	6.5	27.5	28.7	6.5	27.5	31.6	7.6
Congestive Heart Failure	150	18.7	14.8	3.7	24.7	23.1	3.5	30.7	29.9	3.9
Pneumonia/Influenza	129	20.9	16.6	3.5	24.0	23.0	3.7	29.5	27.8	4.0
Chronic Obstructive Pulmonary Disease	24	16.7	7.5	*	16.7	12.7	*	16.7	17.0	*
Transient Cerebral Ischemia	52	0.0	2.0	2.4	5.8	4.5	4.7	5.8	7.2	5.5
Stroke	78	25.6	18.7	10.0	30.8	24.8	11.4	35.9	29.2	11.1
Hip Fracture	38	5.3	5.8	*	7.9	10.4	*	13.2	13.5	*
Sepsis	13	15.4	24.6	*	23.1	31.8	*	30.8	37.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	5	20.0	6.5	*	20.0	10.7	*	20.0	14.5	*
Carotid Endarterectomy	10	0.0	1.5	*	10.0	3.2	*	10.0	5.2	*
Hip Replacement/Reconstruction	33	3.0	4.0	*	3.0	6.3	*	6.1	8.1	*
Open Reduction of Hip Fracture	18	5.6	4.7	*	5.6	8.9	*	5.6	11.8	*
Prostatectomy	126	0.8	0.9	1.3	4.8	2.2	2.5	4.8	3.8	2.2
Cholecystectomy	56	8.9	2.9	4.2	10.7	4.9	4.9	12.5	6.3	6.1
Hysterectomy	22	0.0	0.5	*	0.0	1.1	*	0.0	1.8	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	276
Occupancy Rate	47
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	90
Percent of Physicians Board Certified Specialists	61
Medical Residents/Interns	0
Registered Nurses	181
Licensed Practical Nurses	77

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

MARION GENERAL HOSPITAL

Medicare Provider Number: 150011

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,068	9.0	8.4	1.0	13.1	12.7	1.0	16.1	16.2	0.9
CONDITIONS:										
Acute Myocardial Infarction	65	30.8	28.0	6.6	30.8	30.8	6.2	32.3	33.9	6.0
Congestive Heart Failure	116	15.5	15.0	3.3	19.8	22.9	4.5	25.0	29.5	5.4
Pneumonia/Influenza	114	18.4	15.7	4.1	22.8	21.5	3.9	24.6	26.0	4.3
Chronic Obstructive Pulmonary Disease	31	3.2	7.4	*	12.9	13.3	*	19.4	18.5	*
Transient Cerebral Ischemia	41	0.0	2.5	*	9.8	5.7	*	9.8	9.0	*
Stroke	64	29.7	23.0	8.0	35.9	29.4	10.8	42.2	34.1	10.5
Hip Fracture	44	9.1	5.8	*	13.6	10.6	*	13.6	13.9	*
Sepsis	15	20.0	22.8	*	26.7	31.8	*	26.7	38.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	10	0.0	4.1	*	20.0	6.7	*	20.0	9.1	*
Carotid Endarterectomy	13	0.0	1.5	*	0.0	2.7	*	0.0	3.9	*
Hip Replacement/Reconstruction	28	10.7	3.5	*	14.3	6.8	*	14.3	9.2	*
Open Reduction of Hip Fracture	25	8.0	5.0	*	12.0	9.4	*	12.0	12.3	*
Prostatectomy	92	1.1	1.2	1.2	1.1	3.0	2.5	4.3	5.1	2.4
Cholecystectomy	59	1.7	2.3	2.0	1.7	4.2	3.1	1.7	5.7	4.1
Hysterectomy	10	0.0	0.3	*	0.0	0.7	*	0.0	1.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,084	9.4	8.4	1.0	13.9	12.8	1.0	17.0	16.3	1.0
CONDITIONS:										
Acute Myocardial Infarction	57	42.1	26.9	10.0	45.6	29.6	9.7	45.6	32.6	9.6
Congestive Heart Failure	119	18.5	15.4	5.4	28.6	23.4	6.3	36.1	30.2	8.7
Pneumonia/Influenza	102	18.6	17.1	3.9	24.5	23.4	4.4	27.5	28.4	4.8
Chronic Obstructive Pulmonary Disease	33	12.1	8.4	*	18.2	14.3	*	24.2	19.2	*
Transient Cerebral Ischemia	44	2.3	2.0	*	4.5	4.2	*	6.8	6.7	*
Stroke	73	20.5	21.9	4.9	32.9	28.5	6.1	37.0	33.2	6.7
Hip Fracture	42	2.4	6.4	*	4.8	11.4	*	9.5	14.6	*
Sepsis	14	21.4	19.5	*	21.4	27.0	*	21.4	32.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	0.0	2.0	*	0.0	4.4	*	0.0	6.7	*
Carotid Endarterectomy	14	7.1	2.4	*	7.1	4.8	*	7.1	7.0	*
Hip Replacement/Reconstruction	23	4.3	3.5	*	8.7	6.6	*	13.0	8.7	*
Open Reduction of Hip Fracture	30	3.3	5.6	*	6.7	10.5	*	13.3	13.9	*
Prostatectomy	143	2.1	1.1	1.1	3.5	2.6	1.4	4.9	4.3	1.7
Cholecystectomy	53	5.7	2.5	3.5	9.4	4.7	4.7	11.3	6.2	5.0
Hysterectomy	21	0.0	1.5	*	0.0	3.2	*	0.0	4.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MARY SHERMAN HOSPITAL

320 North Section Street
Sullivan, IN 47882

Medicare Provider Number: 150013

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	631	11.6	9.8	2.0	17.7	14.7	2.4	21.2	18.7	2.3
CONDITIONS:										
Acute Myocardial Infarction	19	47.4	31.0	*	52.6	34.0	*	52.6	37.7	*
Congestive Heart Failure	66	9.1	14.6	6.9	18.2	22.9	7.8	21.2	29.9	7.6
Pneumonia/Influenza	69	15.9	15.4	5.6	24.6	20.8	7.8	29.0	25.2	7.6
Chronic Obstructive Pulmonary Disease	5	20.0	10.0	*	20.0	21.5	*	20.0	31.2	*
Transient Cerebral Ischemia	13	0.0	1.7	*	0.0	3.7	*	0.0	5.7	*
Stroke	32	25.0	23.5	*	34.4	31.0	*	34.4	36.2	*
Hip Fracture	18	5.6	7.4	*	5.6	12.9	*	11.1	16.6	*
Sepsis	2	0.0	27.2	*	0.0	31.7	*	0.0	37.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	0.0	5.0	*	0.0	8.8	*	0.0	11.3	*
Open Reduction of Hip Fracture	1	0.0	7.7	*	0.0	12.4	*	0.0	15.0	*
Prostatectomy	6	0.0	1.9	*	0.0	5.1	*	0.0	8.9	*
Cholecystectomy	10	0.0	2.3	*	10.0	4.3	*	10.0	6.1	*
Hysterectomy	4	0.0	6.0	*	0.0	10.3	*	0.0	12.8	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1988

Total Beds	56
Occupancy Rate	48
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	7
Percent of Physicians Board Certified Specialists	29
Medical Residents/Interns	0
Registered Nurses	29
Licensed Practical Nurses	6

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

MARY SHERMAN HOSPITAL

Medicare Provider Number: 150013

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	589	11.7	10.2	1.9	16.5	14.8	2.3	19.7	18.6	2.3
CONDITIONS:										
Acute Myocardial Infarction	29	41.4	33.1	*	44.8	36.7	*	55.2	40.2	*
Congestive Heart Failure	70	21.4	18.1	7.7	27.1	26.7	9.8	27.1	33.7	10.3
Pneumonia/Influenza	32	9.4	14.5	*	9.4	20.0	*	12.5	24.4	*
Chronic Obstructive Pulmonary Disease	4	0.0	6.6	*	25.0	13.5	*	25.0	19.8	*
Transient Cerebral Ischemia	8	0.0	2.1	*	0.0	4.7	*	0.0	7.5	*
Stroke	29	37.9	24.0	*	44.8	30.1	*	48.3	34.9	*
Hip Fracture	17	5.9	9.6	*	17.6	16.9	*	23.5	21.3	*
Sepsis	4	25.0	31.7	*	50.0	37.3	*	50.0	43.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	0.0	12.1	*	33.3	22.3	*	33.3	28.2	*
Open Reduction of Hip Fracture	8	12.5	9.5	*	12.5	17.6	*	25.0	22.7	*
Prostatectomy	11	9.1	1.3	*	18.2	3.2	*	18.2	5.2	*
Cholecystectomy	10	0.0	2.4	*	0.0	4.2	*	10.0	5.3	*
Hysterectomy	3	0.0	2.2	*	0.0	2.9	*	0.0	3.4	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	540	9.3	9.5	1.4	14.1	14.0	1.6	17.6	17.8	1.7
CONDITIONS:										
Acute Myocardial Infarction	31	29.0	31.3	*	29.0	34.8	*	29.0	38.2	*
Congestive Heart Failure	46	15.2	16.7	*	17.4	25.8	*	28.3	33.2	*
Pneumonia/Influenza	26	15.4	13.4	*	15.4	18.2	*	19.2	22.2	*
Chronic Obstructive Pulmonary Disease	6	33.3	14.9	*	33.3	26.3	*	33.3	34.7	*
Transient Cerebral Ischemia	14	0.0	1.6	*	0.0	3.6	*	0.0	5.8	*
Stroke	36	19.4	21.4	*	27.8	27.3	*	33.3	31.9	*
Hip Fracture	19	0.0	5.6	*	10.5	10.5	*	10.5	14.0	*
Sepsis	7	0.0	33.2	*	14.3	39.0	*	14.3	44.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	6	0.0	6.1	*	16.7	11.6	*	16.7	15.4	*
Open Reduction of Hip Fracture	8	0.0	5.0	*	0.0	9.9	*	0.0	13.6	*
Prostatectomy	11	0.0	1.6	*	9.1	3.9	*	9.1	6.4	*
Cholecystectomy	12	0.0	3.9	*	8.3	7.4	*	8.3	10.0	*
Hysterectomy	5	0.0	0.7	*	0.0	1.3	*	0.0	1.8	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

MCCRAY MEMORIAL HOSPITAL

P O Box 249
Kendallville, IN 46755

Medicare Provider Number: 150073

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	504	8.9	8.0	1.4	12.5	12.1	1.5	15.1	15.6	1.8
CONDITIONS:										
Acute Myocardial Infarction	14	42.9	31.0	*	42.9	34.1	*	42.9	38.2	*
Congestive Heart Failure	37	10.8	14.4	*	16.2	22.9	*	18.9	29.8	*
Pneumonia/Influenza	36	8.3	15.3	*	13.9	20.8	*	19.4	25.5	*
Chronic Obstructive Pulmonary Disease	13	0.0	5.2	*	0.0	9.4	*	7.7	13.1	*
Transient Cerebral Ischemia	17	5.9	1.6	*	5.9	3.4	*	5.9	5.4	*
Stroke	22	40.9	19.2	*	45.5	25.6	*	50.0	30.2	*
Hip Fracture	9	22.2	6.6	*	44.4	12.2	*	44.4	16.0	*
Sepsis	5	0.0	16.6	*	0.0	23.3	*	0.0	28.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	4.6	*	0.0	9.2	*	0.0	12.6	*
Open Reduction of Hip Fracture	6	16.7	5.8	*	50.0	11.4	*	50.0	15.3	*
Prostatectomy	10	0.0	0.8	*	10.0	1.8	*	20.0	3.0	*
Cholecystectomy	12	0.0	2.0	*	0.0	3.1	*	0.0	3.9	*
Hysterectomy	14	0.0	0.8	*	0.0	1.5	*	0.0	2.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	51
Occupancy Rate	55
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	16
Percent of Physicians Board Certified Specialists	56
Medical Residents/Interns	0
Registered Nurses	38
Licensed Practical Nurses	16

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MCCRAY MEMORIAL HOSPITAL

Medicare Provider Number: 150073

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	479	10.9	9.4	1.7	15.0	14.4	1.7	19.0	18.3	2.0
CONDITIONS:										
Acute Myocardial Infarction	11	27.3	30.7	*	36.4	34.4	*	45.5	39.2	*
Congestive Heart Failure	37	16.2	14.9	*	21.6	23.3	*	29.7	30.2	*
Pneumonia/Influenza	29	31.0	16.9	*	37.9	23.3	*	41.4	28.3	*
Chronic Obstructive Pulmonary Disease	11	0.0	5.9	*	0.0	10.4	*	0.0	14.6	*
Transient Cerebral Ischemia	11	0.0	1.6	*	9.1	3.4	*	18.2	5.3	*
Stroke	23	4.3	22.4	*	17.4	29.0	*	17.4	34.0	*
Hip Fracture	8	12.5	6.7	*	12.5	12.0	*	12.5	15.2	*
Sepsis	5	0.0	19.6	*	20.0	25.4	*	40.0	30.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	33.3	5.6	*	33.3	10.4	*	33.3	13.4	*
Open Reduction of Hip Fracture	6	16.7	6.7	*	16.7	12.4	*	16.7	16.0	*
Prostatectomy	11	0.0	1.1	*	0.0	2.8	*	0.0	4.8	*
Cholecystectomy	11	9.1	2.8	*	9.1	5.0	*	9.1	6.3	*
Hysterectomy	5	0.0	0.6	*	0.0	1.1	*	0.0	1.3	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	473	10.4	8.5	1.9	13.3	12.9	1.6	16.7	16.4	1.7
CONDITIONS:										
Acute Myocardial Infarction	13	30.8	33.3	*	30.8	37.7	*	30.8	42.4	*
Congestive Heart Failure	34	20.6	15.2	*	23.5	23.0	*	35.3	29.6	*
Pneumonia/Influenza	32	6.3	13.6	*	9.4	18.8	*	12.5	23.1	*
Chronic Obstructive Pulmonary Disease	10	0.0	5.0	*	0.0	9.6	*	20.0	13.6	*
Transient Cerebral Ischemia	13	0.0	1.8	*	7.7	3.9	*	7.7	6.2	*
Stroke	25	20.0	18.9	*	20.0	25.2	*	20.0	29.9	*
Hip Fracture	17	11.8	7.5	*	23.5	13.3	*	23.5	17.0	*
Sepsis	2	0.0	30.6	*	0.0	35.8	*	0.0	42.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	7	14.3	6.8	*	28.6	13.1	*	28.6	17.1	*
Open Reduction of Hip Fracture	5	20.0	5.5	*	40.0	10.1	*	40.0	13.0	*
Prostatectomy	17	0.0	0.7	*	0.0	1.7	*	0.0	2.8	*
Cholecystectomy	15	0.0	1.5	*	6.7	2.9	*	6.7	3.9	*
Hysterectomy	4	0.0	4.6	*	0.0	10.0	*	0.0	15.0	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MEMORIAL HOSPITAL

1101 Michigan Av
Logansport, IN 46947

Medicare Provider Number: 150072

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	835	10.1	9.1	1.2	14.0	13.5	1.2	17.4	17.1	1.4
CONDITIONS:										
Acute Myocardial Infarction	34	29.4	30.1	*	32.4	33.2	*	35.3	36.7	*
Congestive Heart Failure	63	23.8	14.1	7.5	25.4	21.7	5.5	34.9	28.3	6.6
Pneumonia/Influenza	48	16.7	16.4	*	18.8	22.2	*	22.9	27.0	*
Chronic Obstructive Pulmonary Disease	30	3.3	8.3	*	16.7	14.6	*	20.0	19.8	*
Transient Cerebral Ischemia	11	0.0	1.5	*	0.0	3.3	*	0.0	5.2	*
Stroke	44	27.3	21.0	*	29.5	28.0	*	34.1	32.5	*
Hip Fracture	37	2.7	5.5	*	5.4	9.9	*	8.1	13.1	*
Sepsis	2	50.0	25.5	*	50.0	37.3	*	50.0	46.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	8	0.0	4.6	*	0.0	7.0	*	0.0	9.2	*
Carotid Endarterectomy	3	0.0	1.3	*	0.0	2.4	*	0.0	3.6	*
Hip Replacement/Reconstruction	27	3.7	2.6	*	7.4	5.0	*	7.4	6.9	*
Open Reduction of Hip Fracture	3	0.0	7.7	*	0.0	14.1	*	0.0	18.3	*
Prostatectomy	24	4.2	1.1	*	4.2	2.8	*	4.2	4.8	*
Cholecystectomy	18	0.0	1.9	*	5.6	3.4	*	11.1	4.5	*
Hysterectomy	6	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	102
Occupancy Rate	39
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	41
Percent of Physicians Board Certified Specialists	73
Medical Residents/Interns	0
Registered Nurses	61
Licensed Practical Nurses	20

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

MEMORIAL HOSPITAL

Medicare Provider Number: 150072

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	783	11.2	8.7	1.4	15.7	13.0	1.6	19.4	16.5	1.8
CONDITIONS:										
Acute Myocardial Infarction	34	44.1	26.9	*	44.1	29.4	*	50.0	32.6	*
Congestive Heart Failure	48	18.8	14.5	*	22.9	22.2	*	27.1	28.7	*
Pneumonia/Influenza	36	13.9	15.3	*	19.4	20.4	*	27.8	24.6	*
Chronic Obstructive Pulmonary Disease	27	14.8	8.6	*	18.5	14.9	*	22.2	20.5	*
Transient Cerebral Ischemia	4	0.0	1.9	*	0.0	3.9	*	0.0	5.9	*
Stroke	42	14.3	17.3	*	26.2	23.8	*	31.0	28.2	*
Hip Fracture	34	5.9	5.7	*	5.9	10.6	*	11.8	13.9	*
Sepsis	7	28.6	37.0	*	57.1	43.4	*	57.1	49.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	2.2	*	0.0	3.8	*	25.0	5.4	*
Carotid Endarterectomy	3	0.0	1.6	*	0.0	3.5	*	0.0	5.3	*
Hip Replacement/Reconstruction	33	6.1	3.2	*	6.1	6.1	*	9.1	8.2	*
Open Reduction of Hip Fracture	5	0.0	3.6	*	0.0	6.9	*	0.0	9.3	*
Prostatectomy	22	4.5	1.2	*	4.5	3.0	*	9.1	5.0	*
Cholecystectomy	21	0.0	3.2	*	4.8	5.7	*	4.8	7.5	*
Hysterectomy	12	0.0	0.6	*	0.0	1.3	*	0.0	2.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	871	11.8	9.1	1.4	16.2	13.4	1.6	19.3	16.9	1.6
CONDITIONS:										
Acute Myocardial Infarction	34	26.5	26.0	*	29.4	28.9	*	38.2	32.1	*
Congestive Heart Failure	60	26.7	14.8	7.6	31.7	22.0	7.6	35.0	28.3	6.8
Pneumonia/Influenza	37	13.5	14.5	*	21.6	19.6	*	21.6	23.9	*
Chronic Obstructive Pulmonary Disease	24	8.3	8.9	*	8.3	14.8	*	12.5	19.9	*
Transient Cerebral Ischemia	8	12.5	1.8	*	12.5	3.8	*	12.5	6.0	*
Stroke	47	40.4	20.1	*	51.1	27.7	*	51.1	32.5	*
Hip Fracture	41	4.9	5.9	*	19.5	10.9	*	22.0	14.3	*
Sepsis	5	20.0	30.0	*	40.0	37.1	*	40.0	44.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	8	0.0	3.4	*	0.0	5.9	*	0.0	8.1	*
Carotid Endarterectomy	2	50.0	1.6	*	50.0	2.8	*	50.0	4.0	*
Hip Replacement/Reconstruction	36	2.8	3.4	*	5.6	6.6	*	5.6	8.8	*
Open Reduction of Hip Fracture	8	0.0	4.2	*	25.0	8.6	*	25.0	11.9	*
Prostatectomy	27	3.7	1.1	*	3.7	2.7	*	3.7	4.6	*
Cholecystectomy	22	0.0	1.7	*	0.0	3.1	*	0.0	4.1	*
Hysterectomy	21	0.0	0.4	*	0.0	0.9	*	0.0	1.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MEMORIAL HOSPITAL & HEALTH CARE CENTER

800 W 9th St
Jasper, IN 47546

Medicare Provider Number: 150115

The mortality rate tabies present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	823	8.0	9.5	1.5	13.7	14.1	1.6	18.2	17.8	1.4
CONDITIONS:										
Acute Myocardial Infarction	32	25.0	27.4	*	28.1	30.8	*	31.3	34.7	*
Congestive Heart Failure	66	10.6	14.3	5.5	18.2	22.7	6.1	30.3	29.6	5.6
Pneumonia/Influenza	43	4.7	14.7	*	9.3	20.1	*	18.6	24.6	*
Chronic Obstructive Pulmonary Disease	7	0.0	8.7	*	14.3	16.9	*	14.3	24.6	*
Transient Cerebral Ischemia	8	12.5	2.0	*	25.0	4.6	*	25.0	7.6	*
Stroke	30	13.3	26.0	*	30.0	33.2	*	43.3	38.3	*
Hip Fracture	33	3.0	7.2	*	9.1	12.9	*	15.2	16.6	*
Sepsis	8	25.0	22.0	*	25.0	31.1	*	37.5	39.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	14.3	4.0	*	14.3	7.8	*	28.6	11.1	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	31	0.0	3.3	*	3.2	6.1	*	9.7	8.3	*
Open Reduction of Hip Fracture	17	5.9	7.4	*	11.8	13.7	*	17.6	17.7	*
Prostatectomy	32	3.1	1.0	*	3.1	2.4	*	3.1	3.9	*
Cholecystectomy	11	0.0	1.1	*	0.0	1.9	*	0.0	2.5	*
Hysterectomy	9	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	131
Occupancy Rate	51
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	29
Percent of Physicians Board Certified Specialists	66
Medical Residents/Interns	0
Registered Nurses	84
Licensed Practical Nurses	11

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

MEMORIAL HOSPITAL & HEALTH CARE CENTER

Medicare Provider Number: 150115

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	853	9.8	9.1	1.1	13.6	13.6	1.4	16.3	17.1	1.4
CONDITIONS:										
Acute Myocardial Infarction	37	27.0	25.7	*	27.0	28.8	*	32.4	32.2	*
Congestive Heart Failure	74	21.6	13.7	7.7	29.7	21.5	7.8	32.4	28.1	8.3
Pneumonia/Influenza	48	16.7	15.1	*	18.8	20.3	*	20.8	24.6	*
Chronic Obstructive Pulmonary Disease	4	0.0	7.9	*	25.0	13.1	*	25.0	18.0	*
Transient Cerebral Ischemia	11	0.0	1.8	*	0.0	4.0	*	0.0	6.2	*
Stroke	29	41.4	20.8	*	44.8	26.6	*	44.8	31.2	*
Hip Fracture	29	13.8	6.7	*	13.8	12.1	*	17.2	15.6	*
Sepsis	4	0.0	38.9	*	0.0	45.6	*	0.0	53.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	10	0.0	2.8	*	10.0	5.2	*	10.0	7.7	*
Carotid Endarterectomy	1	0.0	5.3	*	0.0	12.7	*	0.0	19.2	*
Hip Replacement/Reconstruction	19	5.3	4.4	*	5.3	8.6	*	10.5	11.4	*
Open Reduction of Hip Fracture	17	11.8	6.2	*	11.8	11.4	*	11.8	14.9	*
Prostatectomy	22	0.0	1.2	*	0.0	2.9	*	4.5	4.6	*
Cholecystectomy	14	0.0	2.9	*	0.0	4.8	*	0.0	6.1	*
Hysterectomy	8	0.0	0.3	*	0.0	0.5	*	0.0	0.7	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	814	7.5	8.4	1.2	11.8	12.8	1.5	16.3	16.3	1.5
CONDITIONS:										
Acute Myocardial Infarction	28	21.4	28.0	*	21.4	31.0	*	21.4	34.2	*
Congestive Heart Failure	57	21.1	14.2	7.4	31.6	22.2	10.5	40.4	28.9	11.4
Pneumonia/Influenza	39	12.8	14.7	*	15.4	20.1	*	23.1	24.8	*
Chronic Obstructive Pulmonary Disease	14	0.0	8.1	*	0.0	14.5	*	14.3	19.7	*
Transient Cerebral Ischemia	10	0.0	2.1	*	0.0	4.6	*	10.0	7.4	*
Stroke	20	25.0	20.3	*	25.0	26.0	*	25.0	30.6	*
Hip Fracture	24	0.0	6.2	*	12.5	10.7	*	16.7	13.7	*
Sepsis	2	0.0	17.7	*	0.0	23.3	*	0.0	28.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	2.6	*	0.0	6.0	*	0.0	9.6	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	28	0.0	2.6	*	3.6	4.7	*	14.3	6.2	*
Open Reduction of Hip Fracture	12	0.0	5.9	*	8.3	10.9	*	8.3	14.0	*
Prostatectomy	23	4.3	0.8	*	4.3	2.0	*	4.3	3.5	*
Cholecystectomy	18	0.0	2.9	*	0.0	5.1	*	0.0	6.4	*
Hysterectomy	5	0.0	0.3	*	0.0	0.6	*	0.0	0.8	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

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MEMORIAL HOSPITAL
And Health Care Center
Owned and Operated by the Sisters of the Little Company of Mary, Inc.

January 15, 1991

Gail R. Wilensky, Ph.D.
Administrator
Health Care Financing Administration
6325 Security Blvd.
Baltimore, MD 21207

Dear Ms. Wilensky:

I want to thank you for allowing Memorial Hospital and Health Care Center to respond to the Medicare hospital mortality release. After reviewing and validating the data we received it was noted that our facility, in both the 30 day and 90 day categories, was under the standard deviation of the predicted rate. Given our scope of service and average age of our population in the categories listed, while we were pleased with the HCFA report, in many cases these deaths were uncontrollable and could just have easily been over the standard deviations.

We feel that the mortality information you release is just a small part of continuing ongoing efforts our facility utilizes to improve quality of care and all deaths are reviewed on an individual basis for patterns and trends.

In conclusion we feel quality of care is not obtained by reviewing mortality statistics; rather quality of care is derives from reviewing all aspects of patient care from admission to discharge as well as patients' conditions, general health factors and many other items.

Sincerely,

Michael J. Budnick
President

DA/crb

DEB006LTR

BIG CITY TECHNOLOGY WITH THAT SPECIAL SMALL TOWN TOUCH
800 West 9th Street ▲ Jasper, Indiana 47546 ▲ 812 482 2345

MEMORIAL HOSPITAL OF MICHIGAN CITY

5th & Pine Sts
Michigan City, IN 46360

Medicare Provider Number: 150077

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	262	10.3	9.3	2.1	15.6	14.1	2.4	19.8	17.8	3.2
CONDITIONS:										
Acute Myocardial Infarction	8	12.5	25.6	*	62.5	28.4	*	62.5	31.7	*
Congestive Heart Failure	17	5.9	13.3	*	5.9	20.3	*	17.6	26.3	*
Pneumonia/Influenza	7	14.3	15.6	*	28.6	21.0	*	42.9	25.6	*
Chronic Obstructive Pulmonary Disease	8	25.0	5.6	*	37.5	11.0	*	37.5	16.2	*
Transient Cerebral Ischemia	5	0.0	1.6	*	0.0	3.4	*	0.0	5.3	*
Stroke	12	33.3	17.5	*	41.7	23.3	*	41.7	27.4	*
Hip Fracture	6	0.0	4.6	*	0.0	7.8	*	0.0	10.1	*
Sepsis	5	20.0	18.9	*	20.0	24.8	*	60.0	28.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	2.4	*	0.0	4.5	*	0.0	6.0	*
Open Reduction of Hip Fracture	4	0.0	3.5	*	0.0	6.6	*	0.0	9.0	*
Prostatectomy	2	0.0	0.6	*	0.0	1.3	*	0.0	2.1	*
Cholecystectomy	3	0.0	1.4	*	0.0	2.5	*	0.0	3.2	*
Hysterectomy	3	0.0	0.2	*	0.0	0.3	*	0.0	0.5	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	102
Occupancy Rate	46
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	93
Percent of Physicians Board Certified Specialists	56
Medical Residents/Interns	0
Registered Nurses	55
Licensed Practical Nurses	13

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

MEMORIAL HOSPITAL OF MICHIGAN CITY

Medicare Provider Number: 150077

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	286	8.4	7.6	1.7	12.2	12.1	2.1	15.0	15.7	2.3
CONDITIONS:										
Acute Myocardial Infarction	4	25.0	21.6	*	25.0	24.1	*	25.0	27.5	*
Congestive Heart Failure	15	6.7	15.7	*	13.3	22.7	*	20.0	29.1	*
Pneumonia/Influenza	15	0.0	11.7	*	20.0	16.3	*	20.0	20.2	*
Chronic Obstructive Pulmonary Disease	6	0.0	4.2	*	0.0	7.5	*	0.0	10.2	*
Transient Cerebral Ischemia	8	0.0	2.2	*	0.0	4.8	*	0.0	7.7	*
Stroke	8	37.5	20.7	*	37.5	27.6	*	37.5	32.1	*
Hip Fracture	7	28.6	6.9	*	28.6	12.4	*	28.6	16.0	*
Sepsis	6	33.3	26.8	*	33.3	36.6	*	33.3	42.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	7	28.6	6.0	*	28.6	11.3	*	28.6	14.9	*
Prostatectomy	9	0.0	2.0	*	0.0	5.0	*	0.0	8.0	*
Cholecystectomy	9	11.1	6.2	*	22.2	11.3	*	22.2	14.3	*
Hysterectomy	3	0.0	0.6	*	0.0	0.9	*	0.0	1.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	277	13.4	11.4	2.2	17.0	16.6	2.3	20.9	20.6	2.4
CONDITIONS:										
Acute Myocardial Infarction	10	30.0	25.4	*	40.0	29.0	*	40.0	32.7	*
Congestive Heart Failure	18	5.6	14.1	*	22.2	20.9	*	22.2	26.9	*
Pneumonia/Influenza	14	28.6	16.2	*	28.6	21.8	*	28.6	26.3	*
Chronic Obstructive Pulmonary Disease	2	0.0	2.9	*	0.0	5.8	*	0.0	8.5	*
Transient Cerebral Ischemia	11	18.2	2.0	*	18.2	3.9	*	18.2	5.9	*
Stroke	18	22.2	26.5	*	33.3	34.9	*	44.4	40.0	*
Hip Fracture	8	12.5	7.7	*	12.5	14.4	*	12.5	18.8	*
Sepsis	8	50.0	31.5	*	50.0	39.4	*	50.0	45.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	1	0.0	3.0	*	0.0	5.2	*	0.0	7.6	*
Hip Replacement/Reconstruction	3	0.0	3.3	*	0.0	6.7	*	0.0	9.2	*
Open Reduction of Hip Fracture	7	14.3	6.7	*	14.3	13.0	*	14.3	17.4	*
Prostatectomy	8	0.0	2.4	*	0.0	5.5	*	0.0	8.1	*
Cholecystectomy	7	0.0	2.5	*	0.0	4.8	*	0.0	6.3	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MEMORIAL HOSPITAL OF SOUTH BEND

615 N Michigan St
South Bend, IN 46601

Medicare Provider Number: 150058

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,068	8.7	8.5	0.5	13.2	13.1	0.6	16.9	16.9	0.7
CONDITIONS:										
Acute Myocardial Infarction	93	17.2	27.3	6.4	21.5	30.3	6.2	26.9	33.9	5.9
Congestive Heart Failure	170	12.4	13.0	3.4	18.8	20.5	3.4	26.5	26.9	4.7
Pneumonia/Influenza	111	18.0	16.6	4.0	23.4	22.8	4.0	27.0	27.6	5.0
Chronic Obstructive Pulmonary Disease	20	15.0	9.0	*	25.0	15.2	*	25.0	20.6	*
Transient Cerebral Ischemia	24	0.0	1.9	*	8.3	4.3	*	8.3	6.8	*
Stroke	79	21.5	20.2	9.3	30.4	26.6	7.8	32.9	31.3	5.8
Hip Fracture	62	9.7	5.3	5.8	14.5	9.7	8.1	16.1	12.9	8.5
Sepsis	29	31.0	26.6	*	37.9	34.7	*	37.9	42.0	*
PROCEDURES:										
Angioplasty	51	0.0	2.2	*	0.0	3.0	*	0.0	4.1	*
Coronary Artery Bypass Graft	141	4.3	5.6	3.1	5.7	7.8	3.6	7.1	9.2	3.4
Initial Pacemaker Insertion	18	5.6	2.9	*	5.6	5.5	*	5.6	8.0	*
Carotid Endarterectomy	14	0.0	1.0	*	0.0	1.8	*	0.0	2.6	*
Hip Replacement/Reconstruction	74	1.4	1.7	1.7	4.1	3.3	2.2	4.1	4.6	2.6
Open Reduction of Hip Fracture	28	10.7	4.8	*	10.7	9.3	*	14.3	12.7	*
Prostatectomy	46	0.0	0.7	*	0.0	1.6	*	0.0	2.8	*
Cholecystectomy	67	6.0	3.3	3.2	7.5	6.0	4.2	10.4	7.9	5.3
Hysterectomy	24	0.0	1.1	*	0.0	2.3	*	0.0	3.6	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1988

Total Beds	463
Occupancy Rate	61
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	346
Percent of Physicians Board Certified Specialists	73
Medical Residents/Interns	19
Registered Nurses	548
Licensed Practical Nurses	28

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	Yes
Rehabilitation Unit	Yes
Trauma Center	Yes

** **Not used in calculating hospital mortality rates.**

MEMORIAL HOSPITAL OF SOUTH BEND

Medicare Provider Number: 150058

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,119	9.2	8.2	0.8	13.8	12.8	0.9	17.6	16.7	0.9
CONDITIONS:										
Acute Myocardial Infarction	89	24.7	26.5	5.3	31.5	29.6	5.1	33.7	33.3	5.2
Congestive Heart Failure	165	15.8	13.7	4.1	24.8	21.5	5.6	31.5	28.0	7.1
Pneumonia/Influenza	119	12.6	14.1	3.5	17.6	19.6	4.3	21.8	24.1	4.3
Chronic Obstructive Pulmonary Disease	22	9.1	9.0	*	22.7	15.1	*	22.7	20.5	*
Transient Cerebral Ischemia	32	3.1	1.9	*	3.1	4.4	*	6.3	7.0	*
Stroke	88	18.2	18.5	4.2	22.7	24.8	5.6	26.1	29.5	7.0
Hip Fracture	90	4.4	4.5	2.4	8.9	8.9	3.0	11.1	12.0	3.8
Sepsis	29	44.8	32.7	*	51.7	40.6	*	55.2	48.0	*
PROCEDURES:										
Angioplasty	59	5.1	3.7	2.8	8.5	4.6	3.7	10.2	5.8	5.0
Coronary Artery Bypass Graft	106	4.7	5.0	2.1	6.6	7.2	3.2	6.6	8.5	3.6
Initial Pacemaker Insertion	3	33.3	17.4	*	33.3	23.8	*	33.3	30.8	*
Carotid Endarterectomy	20	0.0	1.3	*	5.0	2.5	*	10.0	3.8	*
Hip Replacement/Reconstruction	79	2.5	2.0	1.6	5.1	4.1	2.8	7.6	5.6	4.1
Open Reduction of Hip Fracture	41	2.4	4.3	*	7.3	8.8	*	7.3	12.2	*
Prostatectomy	61	1.6	0.7	1.9	3.3	1.5	2.1	3.3	2.5	2.6
Cholecystectomy	60	1.7	2.9	2.4	6.7	5.0	3.5	6.7	6.3	3.2
Hysterectomy	38	0.0	0.4	*	0.0	0.7	*	0.0	1.1	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,037	8.5	7.8	0.8	13.8	12.4	1.0	17.3	16.1	0.9
CONDITIONS:										
Acute Myocardial Infarction	88	22.7	26.3	5.4	26.1	29.7	6.6	26.1	33.6	7.7
Congestive Heart Failure	171	14.0	13.3	2.7	23.4	21.2	3.6	28.1	27.9	3.7
Pneumonia/Influenza	106	13.2	14.4	3.6	22.6	20.3	4.6	28.3	25.3	7.6
Chronic Obstructive Pulmonary Disease	44	13.6	7.7	*	22.7	13.6	*	25.0	18.4	*
Transient Cerebral Ischemia	28	0.0	1.4	*	0.0	3.0	*	0.0	4.8	*
Stroke	86	27.9	19.7	7.6	32.6	26.1	7.5	37.2	31.1	7.1
Hip Fracture	69	8.7	4.8	4.2	18.8	9.1	5.8	20.3	12.2	6.3
Sepsis	29	24.1	24.9	*	37.9	34.0	*	41.4	41.4	*
PROCEDURES:										
Angioplasty	32	6.3	4.0	*	6.3	5.0	*	6.3	6.3	*
Coronary Artery Bypass Graft	107	1.9	5.7	3.3	2.8	8.1	4.2	4.7	9.6	4.2
Initial Pacemaker Insertion	32	6.3	2.2	*	6.3	4.6	*	9.4	7.1	*
Carotid Endarterectomy	17	5.9	1.5	*	5.9	2.7	*	5.9	3.9	*
Hip Replacement/Reconstruction	65	4.6	2.7	3.1	12.3	5.3	4.6	13.8	7.2	5.3
Open Reduction of Hip Fracture	28	7.1	3.7	*	14.3	7.3	*	14.3	10.0	*
Prostatectomy	74	0.0	0.8	1.2	0.0	2.0	2.3	2.7	3.3	2.6
Cholecystectomy	67	3.0	3.0	2.3	4.5	5.4	3.2	4.5	7.0	3.8
Hysterectomy	26	0.0	0.3	*	0.0	0.7	*	0.0	1.1	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

MERCY HOSPITAL INC

1331 South A Street
Elwood, IN 46036

Medicare Provider Number: 150094

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	454	11.9	9.5	2.2	17.6	14.1	2.4	20.5	17.8	2.5
CONDITIONS:										
Acute Myocardial Infarction	10	30.0	25.9	*	30.0	28.5	*	40.0	31.9	*
Congestive Heart Failure	38	31.6	16.9	*	52.6	27.1	*	57.9	34.6	*
Pneumonia/Influenza	25	20.0	13.8	*	32.0	19.0	*	32.0	23.2	*
Chronic Obstructive Pulmonary Disease	17	5.9	7.1	*	5.9	12.4	*	5.9	17.4	*
Transient Cerebral Ischemia	4	0.0	1.6	*	0.0	3.5	*	0.0	5.6	*
Stroke	28	14.3	20.4	*	17.9	26.9	*	17.9	31.5	*
Hip Fracture	11	27.3	4.7	*	27.3	8.7	*	27.3	11.6	*
Sepsis	5	20.0	44.1	*	20.0	53.2	*	40.0	60.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	3.5	*	0.0	8.1	*	0.0	12.5	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	25.0	4.6	*	25.0	8.6	*	25.0	11.5	*
Open Reduction of Hip Fracture	1	100.0	3.7	*	100.0	7.4	*	100.0	10.3	*
Prostatectomy	6	0.0	0.7	*	0.0	1.6	*	0.0	2.8	*
Cholecystectomy	6	16.7	1.4	*	16.7	2.2	*	16.7	2.8	*
Hysterectomy	1	0.0	0.0	*	0.0	0.0	*	0.0	0.0	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	49
Occupancy Rate	51
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	(Not Available)
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	(Not Available)
Registered Nurses	(Not Available)
Licensed Practical Nurses	(Not Available)

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

MERCY HOSPITAL INC

Medicare Provider Number: 150094

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	422	14.5	9.6	2.0	20.4	14.3	2.9	22.7	18.2	2.3
CONDITIONS:										
Acute Myocardial Infarction	13	7.7	33.4	*	23.1	37.3	*	23.1	42.0	*
Congestive Heart Failure	31	29.0	16.4	*	45.2	24.9	*	45.2	32.0	*
Pneumonia/Influenza	15	33.3	16.5	*	33.3	22.6	*	33.3	27.6	*
Chronic Obstructive Pulmonary Disease	8	12.5	11.6	*	12.5	17.5	*	12.5	22.6	*
Transient Cerebral Ischemia	4	25.0	2.8	*	25.0	6.7	*	25.0	11.0	*
Stroke	19	15.8	20.2	*	21.1	27.2	*	26.3	32.1	*
Hip Fracture	16	12.5	6.9	*	12.5	12.7	*	12.5	16.8	*
Sepsis	3	33.3	26.6	*	33.3	31.2	*	33.3	36.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	33.3	5.6	*	33.3	9.9	*	33.3	12.6	*
Open Reduction of Hip Fracture	6	16.7	8.1	*	16.7	16.3	*	16.7	22.2	*
Prostatectomy	10	0.0	0.5	*	0.0	1.3	*	0.0	2.3	*
Cholecystectomy	8	0.0	1.2	*	0.0	2.0	*	0.0	2.5	*
Hysterectomy	2	0.0	0.9	*	0.0	2.1	*	0.0	3.4	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	406	8.4	9.3	2.4	11.3	13.8	2.5	16.0	17.6	2.3
CONDITIONS:										
Acute Myocardial Infarction	10	10.0	37.2	*	20.0	41.4	*	40.0	46.3	*
Congestive Heart Failure	32	18.8	18.0	*	18.8	26.5	*	18.8	33.5	*
Pneumonia/Influenza	23	17.4	16.3	*	26.1	21.8	*	34.8	26.3	*
Chronic Obstructive Pulmonary Disease	4	0.0	7.0	*	0.0	12.7	*	0.0	17.3	*
Transient Cerebral Ischemia	7	0.0	1.9	*	0.0	4.1	*	0.0	6.4	*
Stroke	18	27.8	20.5	*	27.8	26.8	*	33.3	31.6	*
Hip Fracture	14	0.0	5.2	*	0.0	9.6	*	0.0	12.7	*
Sepsis	7	0.0	36.0	*	14.3	46.9	*	14.3	55.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	0.9	*	0.0	2.0	*	100.0	3.1	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	3.6	*	0.0	7.1	*	0.0	9.7	*
Open Reduction of Hip Fracture	7	0.0	5.0	*	0.0	9.1	*	0.0	11.9	*
Prostatectomy	8	0.0	0.9	*	0.0	2.4	*	0.0	4.3	*
Cholecystectomy	6	0.0	0.6	*	16.7	1.2	*	16.7	1.6	*
Hysterectomy	4	0.0	0.1	*	0.0	0.3	*	0.0	0.5	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

METHODIST HOSPITAL OF INDIANA INC

1701 North Senate Boulevard
Indianapolis, IN 46202

Medicare Provider Number: 150056

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	7,273	8.9	9.2	0.5	14.3	13.9	0.7	17.7	17.6	0.5
CONDITIONS:										
Acute Myocardial Infarction	222	26.1	28.5	3.2	28.8	31.5	3.4	29.7	34.8	3.9
Congestive Heart Failure	297	14.1	14.8	2.2	23.6	22.8	2.6	30.6	29.4	2.8
Pneumonia/Influenza	176	18.2	16.5	3.0	26.1	22.3	4.9	30.7	26.9	4.9
Chronic Obstructive Pulmonary Disease	79	3.8	8.6	4.2	8.9	14.4	5.0	17.7	19.4	4.7
Transient Cerebral Ischemia	69	0.0	1.9	2.3	1.4	4.0	3.2	5.8	6.3	3.1
Stroke	214	22.4	22.8	5.2	33.2	29.8	4.5	35.5	34.5	3.8
Hip Fracture	140	3.6	5.9	2.8	10.0	10.5	3.4	10.7	13.6	5.2
Sepsis	58	34.5	29.9	7.1	41.4	38.5	7.7	46.6	45.1	8.3
PROCEDURES:										
Angioplasty	149	4.7	4.4	2.6	8.7	6.0	2.9	9.4	7.6	3.0
Coronary Artery Bypass Graft	205	6.8	6.3	2.1	7.8	8.7	2.3	8.8	10.1	3.1
Initial Pacemaker Insertion	62	3.2	2.7	2.2	3.2	5.2	3.9	9.7	7.8	4.1
Carotid Endarterectomy	48	4.2	1.2	*	4.2	2.1	*	4.2	3.0	*
Hip Replacement/Reconstruction	122	0.8	2.1	1.7	2.5	4.0	2.6	3.3	5.4	2.8
Open Reduction of Hip Fracture	94	4.3	5.5	3.5	11.7	10.3	3.4	11.7	13.5	4.3
Prostatectomy	136	2.2	1.0	1.8	2.9	2.4	2.1	2.9	4.1	2.3
Cholecystectomy	108	0.9	3.2	2.7	3.7	5.9	3.8	4.6	7.7	3.9
Hysterectomy	53	1.9	0.5	1.5	1.9	1.0	1.6	1.9	1.5	2.1

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	960
Occupancy Rate	77
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	491
Percent of Physicians Board Certified Specialists	86
Medical Residents/Interns	160
Registered Nurses	1,301
Licensed Practical Nurses	338

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	Yes
Other Intensive Care	Yes
Rehabilitation Unit	Yes
Trauma Center	Yes

**** Not used in calculating hospital mortality rates.**

METHODIST HOSPITAL OF INDIANA INC

Medicare Provider Number: 150056

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	5,867	9.7	9.8	0.7	14.9	14.9	0.8	18.9	18.8	0.7
CONDITIONS:										
Acute Myocardial Infarction	167	19.8	29.3	5.5	24.0	32.6	5.4	26.9	36.2	5.2
Congestive Heart Failure	240	9.6	15.3	3.5	19.6	23.4	3.9	27.9	30.1	3.1
Pneumonia/Influenza	170	20.6	18.2	3.7	25.9	24.4	4.3	31.8	29.3	4.7
Chronic Obstructive Pulmonary Disease	49	28.6	9.5	*	34.7	15.7	*	36.7	20.9	*
Transient Cerebral Ischemia	52	1.9	1.8	*	3.8	3.8	*	3.8	6.0	*
Stroke	186	28.5	24.0	5.3	34.9	30.2	4.8	37.1	34.7	4.4
Hip Fracture	101	8.9	7.1	3.6	16.8	12.6	5.4	24.8	16.1	6.9
Sepsis	47	31.9	35.0	*	36.2	42.3	*	42.6	48.5	*
PROCEDURES:										
Angioplasty	116	5.2	4.4	2.0	5.2	5.6	2.3	7.8	6.8	2.4
Coronary Artery Bypass Graft	155	7.7	7.7	2.1	12.3	11.0	3.2	12.3	12.8	2.9
Initial Pacemaker Insertion	55	9.1	4.6	5.0	14.5	8.0	6.7	16.4	11.0	6.7
Carotid Endarterectomy	34	0.0	1.5	*	5.9	3.1	*	11.8	4.7	*
Hip Replacement/Reconstruction	98	1.0	2.5	1.9	3.1	4.7	3.4	10.2	6.3	3.0
Open Reduction of Hip Fracture	62	9.7	6.3	5.3	19.4	11.7	7.3	25.8	15.2	8.9
Prostatectomy	126	0.0	1.2	1.4	2.4	2.9	2.1	4.8	4.7	2.8
Cholecystectomy	82	4.9	3.4	3.4	8.5	6.6	4.2	11.0	9.2	3.8
Hysterectomy	52	1.9	0.7	1.6	1.9	1.7	2.8	5.8	2.8	3.2

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	5,615	9.8	9.5	0.5	15.1	14.3	1.0	18.5	18.1	0.6
CONDITIONS:										
Acute Myocardial Infarction	158	28.5	30.3	4.6	29.7	33.4	4.8	32.9	36.9	5.5
Congestive Heart Failure	209	16.3	17.3	2.9	23.4	25.8	4.1	28.7	32.7	5.5
Pneumonia/Influenza	150	22.7	19.2	4.7	31.3	25.5	6.1	36.7	30.5	7.6
Chronic Obstructive Pulmonary Disease	56	19.6	10.8	7.2	23.2	17.6	7.0	28.6	22.7	8.0
Transient Cerebral Ischemia	44	0.0	2.1	*	2.3	4.6	*	4.5	7.3	*
Stroke	148	18.9	24.2	5.2	25.7	30.6	6.1	31.1	35.2	5.6
Hip Fracture	76	3.9	6.7	3.8	9.2	11.7	6.0	10.5	15.1	7.7
Sepsis	39	35.9	42.2	*	48.7	50.6	*	56.4	57.7	*
PROCEDURES:										
Angioplasty	92	4.3	5.5	3.1	4.3	6.8	3.4	7.6	8.2	3.0
Coronary Artery Bypass Graft	142	4.2	7.1	3.3	4.9	9.6	4.0	6.3	11.0	4.1
Initial Pacemaker Insertion	60	6.7	5.2	3.2	8.3	9.0	4.4	15.0	12.3	5.3
Carotid Endarterectomy	28	3.6	1.6	*	3.6	3.3	*	3.6	4.9	*
Hip Replacement/Reconstruction	74	4.1	2.6	2.8	6.8	4.6	3.7	9.5	6.0	5.2
Open Reduction of Hip Fracture	45	4.4	5.6	*	8.9	10.6	*	8.9	13.9	*
Prostatectomy	110	1.8	1.8	1.4	5.5	4.2	2.6	8.2	6.9	3.0
Cholecystectomy	76	5.3	3.2	2.8	7.9	5.4	3.1	9.2	6.8	4.6
Hysterectomy	41	0.0	0.8	*	2.4	1.6	*	2.4	2.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

METHODIST HOSPITAL SOUTH LAKE CAMPUS

8701 Broadway
Merrillville, IN 46410

Medicare Provider Number: 150132

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	2,327	8.2	8.9	0.7	13.6	13.5	0.7	17.3	17.1	0.8
CONDITIONS:										
Acute Myocardial Infarction	49	36.7	26.0	*	36.7	28.7	*	40.8	31.9	*
Congestive Heart Failure	156	12.8	15.1	3.3	23.7	23.1	3.8	33.3	29.9	4.2
Pneumonia/Influenza	89	14.6	16.6	4.3	25.8	22.5	5.6	28.1	27.3	6.4
Chronic Obstructive Pulmonary Disease	35	2.9	10.7	*	8.6	17.2	*	17.1	22.9	*
Transient Cerebral Ischemia	50	2.0	1.9	*	6.0	4.2	*	8.0	6.6	*
Stroke	94	17.0	19.7	4.7	26.6	25.9	4.6	27.7	30.1	6.1
Hip Fracture	41	7.3	6.6	*	17.1	11.4	*	19.5	14.4	*
Sepsis	34	32.4	25.8	*	50.0	34.2	*	55.9	40.4	*
PROCEDURES:										
Angioplasty	28	7.1	4.2	*	7.1	5.1	*	7.1	6.2	*
Coronary Artery Bypass Graft	48	2.1	6.5	*	2.1	9.8	*	8.3	11.8	*
Initial Pacemaker Insertion	14	7.1	7.2	*	14.3	12.5	*	14.3	16.6	*
Carotid Endarterectomy	16	0.0	1.2	*	0.0	2.3	*	0.0	3.4	*
Hip Replacement/Reconstruction	26	7.7	5.0	*	15.4	9.1	*	15.4	11.9	*
Open Reduction of Hip Fracture	19	5.3	5.8	*	10.5	10.6	*	15.8	13.7	*
Prostatectomy	104	0.0	1.3	1.6	1.9	3.3	2.1	3.8	5.5	2.6
Cholecystectomy	44	0.0	2.2	*	0.0	3.9	*	0.0	5.1	*
Hysterectomy	13	0.0	0.5	*	0.0	1.1	*	0.0	1.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1989

Total Beds	355
Ownership/Control	Private, Non-Profit

STAFFING:

Medical Residents/Interns	0
Registered Nurses	295
Licensed Practical Nurses	24

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	Yes
Hospice	No
Intensive Care Unit	Yes
Organ Transplant	No
Rehabilitation	Yes
Shock Trauma	No

**** Not used in calculating hospital mortality rates.**

METHODIST HOSPITAL SOUTH LAKE CAMPUS

Medicare Provider Number: 150132

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,164	9.1	9.1	0.8	14.8	13.9	1.3	18.5	17.7	1.7
CONDITIONS:										
Acute Myocardial Infarction	45	22.2	25.6	*	28.9	28.9	*	28.9	32.2	*
Congestive Heart Failure	131	16.8	14.9	4.4	26.0	22.9	6.6	33.6	29.6	6.9
Pneumonia/Influenza	71	26.8	17.6	7.0	35.2	23.8	8.5	43.7	28.5	9.3
Chronic Obstructive Pulmonary Disease	25	16.0	11.5	*	28.0	18.5	*	32.0	23.9	*
Transient Cerebral Ischemia	37	0.0	1.8	*	2.7	3.9	*	5.4	6.1	*
Stroke	87	20.7	21.5	4.5	33.3	28.0	7.2	36.8	32.6	6.4
Hip Fracture	22	9.1	6.9	*	22.7	12.5	*	31.8	16.1	*
Sepsis	32	21.9	26.2	*	28.1	37.0	*	40.6	44.7	*
PROCEDURE:										
Angioplasty	15	0.0	2.9	*	0.0	3.9	*	0.0	5.1	*
Coronary Artery Bypass Graft	39	10.3	7.5	*	15.4	10.1	*	17.9	11.6	*
Initial Pacemaker Insertion	9	0.0	9.2	*	0.0	13.8	*	0.0	17.3	*
Carotid Endarterectomy	24	4.2	1.5	*	8.3	2.9	*	12.5	4.3	*
Hip Replacement/Reconstruction	9	0.0	6.1	*	22.2	11.4	*	33.3	14.8	*
Open Reduction of Hip Fracture	8	0.0	6.4	*	12.5	12.2	*	25.0	16.1	*
Prostatectomy	102	0.0	0.8	1.1	2.0	1.9	1.4	3.9	3.2	1.8
Cholecystectomy	42	2.4	3.1	*	2.4	5.5	*	2.4	7.2	*
Hysterectomy	22	0.0	0.6	*	0.0	1.4	*	0.0	2.1	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,073	8.6	9.3	0.8	14.1	14.0	0.8	17.9	17.9	0.9
CONDITIONS:										
Acute Myocardial Infarction	54	24.1	28.8	9.1	25.9	31.7	9.2	25.9	35.0	10.2
Congestive Heart Failure	123	11.4	14.3	4.3	20.3	21.6	4.0	25.2	27.9	5.4
Pneumonia/Influenza	55	5.5	18.3	7.9	20.0	24.6	7.0	23.6	29.7	7.0
Chronic Obstructive Pulmonary Disease	28	10.7	12.8	*	10.7	20.2	*	17.9	25.7	*
Transient Cerebral Ischemia	47	0.0	1.7	*	2.1	3.7	*	2.1	5.8	*
Stroke	73	27.4	24.4	8.1	35.6	30.5	10.1	38.4	35.1	8.3
Hip Fracture	15	0.0	9.3	*	13.3	16.5	*	20.0	21.3	*
Sepsis	30	13.3	27.1	*	33.3	36.3	*	40.0	42.9	*
PROCEDURES:										
Angioplasty	20	5.0	5.4	*	10.0	6.6	*	10.0	8.0	*
Coronary Artery Bypass Graft	62	1.6	6.2	3.4	1.6	8.6	5.3	9.7	10.0	3.8
Initial Pacemaker Insertion	19	0.0	5.0	*	10.5	9.9	*	10.5	14.0	*
Carotid Endarterectomy	18	0.0	1.5	*	0.0	2.9	*	0.0	4.1	*
Hip Replacement/Reconstruction	8	0.0	5.4	*	25.0	10.6	*	37.5	15.0	*
Open Reduction of Hip Fracture	6	0.0	10.1	*	16.7	19.1	*	16.7	25.3	*
Prostatectomy	104	1.0	1.1	2.7	4.8	2.7	2.7	7.7	4.4	2.9
Cholecystectomy	34	2.9	3.0	*	5.9	5.8	*	11.8	8.1	*
Hysterectomy	29	3.4	1.2	*	3.4	2.6	*	3.4	3.9	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

THE METHODIST HOSPITALS

Northlake Campus
Corporate Office
600 Grant St
Gary, IN 46402
(219) 886-4000

Southlake Campus
8701 Broadway
Merrillville, IN 46410
(219) 738-5500

January 14, 1990

Re: Provider #15-0002
Provider #15-0132

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Ms. Kappert:

In response to the 1989 mortality data published by HCFA, the following comments are submitted:

Methodist Hospital, as a component of an integrated Quality Assurance program involving Medical Staff, nurses and other hospital personnel, continually monitors many factors which contribute to the quality of care and service provided at our institution. Part of the integrated program is a review of all the mortalities which occur in the hospital.

In analyzing mortalities for 1989, it was found that, as in the past, the leading causes of death include cancer, heart disease (chronic, severe) and pulmonary disease. Statistics also reveal that our Medicare patients in general, consist of people over the age of 66 who enter the hospital on an emergency basis. A significant number of these patients have co-morbid conditions which complicate the principal disease process and may contribute to death.

In addition, peer review of mortality cases by physicians has revealed no particular patterns over the years. Of course, our analysis of each mortality will continue as we search for ways to improve care for all of our patients. The statistics published by HCFA will be analyzed as part of our internal QA process.

We will continue to review and assess how we might help the community meet the needs of the chronically ill elderly, which is an ongoing challenge for communities around the nation.

Changes in the HCFA method of reporting mortalities, including the changes in the model and from calendar year to Federal fiscal year, complicated the hospital's process of evaluating the data provided.

While extending the time period over which mortality information is captured to 180 days makes it possible to analyze patterns of mortality over different time periods, interpretation is more difficult since factors outside the hospital must also be considered in contributing to death.

We continue to believe that the usefulness of mortality data as a single measure of the quality of care offered by any institution is questionable. The HCFA mortality information provided is useful only in raising questions for further study. It therefore, continues to be of limited use to the consumer. Methodist Hospital supports a more comprehensive approach to quality assurance which includes the use of multiple indicators to measure quality of care and service.

Thank you for the opportunity to provide these comments.

Sincerely,

Srbislav Brasovan, MD
President, Medical Staff

John H. Betjemann
Corporate President

MICHIANA COMMUNITY HOSPITAL INC

2515 East Jefferson Blvd
South Bend, IN 46615

Medicare Provider Number: 150099

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	624	7.2	8.1	1.2	11.2	12.3	1.4	13.5	15.7	1.8
CONDITIONS:										
Acute Myocardial Infarction	14	28.6	23.9	*	35.7	26.3	*	35.7	29.1	*
Congestive Heart Failure	35	17.1	12.6	*	25.7	19.8	*	28.6	25.8	*
Pneumonia/Influenza	7	28.6	10.1	*	42.9	14.1	*	42.9	17.6	*
Chronic Obstructive Pulmonary Disease	12	0.0	7.8	*	8.3	16.0	*	16.7	22.8	*
Transient Cerebral Ischemia	5	0.0	1.9	*	0.0	4.5	*	0.0	7.2	*
Stroke	31	16.1	18.3	*	22.6	23.3	*	25.8	27.5	*
Hip Fracture	7	0.0	5.6	*	14.3	10.2	*	14.3	13.3	*
Sepsis	8	25.0	16.1	*	25.0	22.1	*	37.5	26.7	*
PROCEDURES:										
Angioplasty	1	0.0	1.5	*	0.0	2.3	*	0.0	3.1	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	15	0.0	2.3	*	0.0	4.6	*	0.0	6.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	0.0	2.0	*	0.0	4.4	*	0.0	6.5	*
Open Reduction of Hip Fracture	5	0.0	5.8	*	20.0	10.8	*	20.0	14.1	*
Prostatectomy	13	0.0	0.9	*	7.7	2.3	*	7.7	3.9	*
Cholecystectomy	4	0.0	2.6	*	0.0	4.7	*	0.0	5.9	*
Hysterectomy	1	0.0	0.0	*	0.0	0.0	*	0.0	0.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	107
Occupancy Rate	57
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	76
Percent of Physicians Board Certified Specialists	41
Medical Residents/Interns	11
Registered Nurses	78
Licensed Practical Nurses	16

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MICHIANA COMMUNITY HOSPITAL INC

Medicare Provider Number: 150099

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	599	12.0	8.0	1.6	17.4	12.2	2.0	20.7	15.5	2.1
CONDITIONS:										
Acute Myocardial Infarction	13	38.5	31.6	*	38.5	34.6	*	38.5	38.3	*
Congestive Heart Failure	36	16.7	14.4	*	25.0	22.0	*	27.8	28.3	*
Pneumonia/Influenza	22	9.1	14.2	*	22.7	19.9	*	22.7	24.2	*
Chronic Obstructive Pulmonary Disease	27	7.4	5.6	*	7.4	11.0	*	7.4	15.4	*
Transient Cerebral Ischemia	8	12.5	2.7	*	25.0	6.0	*	50.0	9.5	*
Stroke	20	35.0	17.6	*	50.0	22.7	*	55.0	27.0	*
Hip Fracture	13	23.1	6.0	*	30.8	10.5	*	30.8	13.3	*
Sepsis	9	66.7	23.8	*	66.7	29.3	*	66.7	34.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	11	9.1	1.4	*	9.1	2.9	*	18.2	4.4	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	0.0	2.6	*	0.0	5.4	*	20.0	7.5	*
Open Reduction of Hip Fracture	9	22.2	6.1	*	33.3	11.0	*	33.3	14.0	*
Prostatectomy	28	0.0	0.7	*	0.0	1.7	*	0.0	2.8	*
Cholecystectomy	11	0.0	2.8	*	9.1	5.7	*	9.1	8.2	*
Hysterectomy	5	0.0	0.3	*	0.0	0.5	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	619	10.3	7.8	1.4	16.2	11.7	2.0	19.9	15.0	2.2
CONDITIONS:										
Acute Myocardial Infarction	14	50.0	30.8	*	50.0	33.9	*	50.0	37.3	*
Congestive Heart Failure	41	17.1	14.4	*	24.4	22.0	*	36.6	28.5	*
Pneumonia/Influenza	22	18.2	12.5	*	22.7	17.5	*	27.3	21.7	*
Chronic Obstructive Pulmonary Disease	18	5.6	4.8	*	16.7	10.1	*	16.7	15.0	*
Transient Cerebral Ischemia	4	0.0	2.0	*	50.0	4.3	*	50.0	6.8	*
Stroke	22	13.6	19.8	*	36.4	25.5	*	40.9	30.2	*
Hip Fracture	10	10.0	7.2	*	10.0	12.7	*	10.0	16.2	*
Sepsis	11	54.5	29.9	*	72.7	37.2	*	72.7	43.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	6	0.0	8.1	*	0.0	15.7	*	0.0	21.9	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	7	0.0	4.2	*	0.0	8.0	*	0.0	10.7	*
Open Reduction of Hip Fracture	4	25.0	8.9	*	25.0	16.1	*	25.0	20.3	*
Prostatectomy	22	0.0	0.9	*	4.5	2.3	*	4.5	3.9	*
Cholecystectomy	7	0.0	2.4	*	0.0	4.4	*	0.0	5.7	*
Hysterectomy	10	0.0	0.4	*	0.0	0.8	*	0.0	1.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MORGAN COUNTY MEMORIAL HOSPITAL

2209 John R Wooden Dr
Martinsville, IN 46151

Medicare Provider Number: 150038

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	818	9.0	11.3	1.6	13.3	16.1	1.8	16.6	20.0	2.1
CONDITIONS:										
Acute Myocardial Infarction	26	23.1	32.5	*	26.9	35.5	*	30.8	39.1	*
Congestive Heart Failure	38	13.2	19.1	*	26.3	29.1	*	39.5	36.8	*
Pneumonia/Influenza	72	13.9	19.1	7.4	20.8	25.8	7.1	27.8	30.8	6.7
Chronic Obstructive Pulmonary Disease	11	0.0	7.7	*	0.0	12.9	*	0.0	17.9	*
Transient Cerebral Ischemia	15	0.0	1.9	*	6.7	4.2	*	6.7	6.7	*
Stroke	36	16.7	22.8	*	27.8	29.2	*	27.8	34.0	*
Hip Fracture	16	0.0	5.6	*	0.0	10.4	*	0.0	13.7	*
Sepsis	21	14.3	33.2	*	14.3	40.3	*	14.3	47.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	9	0.0	7.7	*	11.1	11.4	*	11.1	14.1	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	10	0.0	4.3	*	0.0	8.3	*	0.0	11.4	*
Open Reduction of Hip Fracture	7	0.0	4.6	*	0.0	8.9	*	0.0	11.8	*
Prostatectomy	31	3.2	1.4	*	3.2	3.5	*	3.2	5.9	*
Cholecystectomy	12	0.0	3.7	*	0.0	5.8	*	8.3	7.3	*
Hysterectomy	4	0.0	0.6	*	0.0	1.4	*	0.0	1.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	108
Occupancy Rate	39
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	43
Percent of Physicians Board Certified Specialists	65
Medical Residents/Interns	0
Registered Nurses	52
Licensed Practical Nurses	25

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MORGAN COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 150038

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	779	11.4	11.8	1.2	16.6	16.9	1.9	19.9	20.9	2.2
CONDITIONS:										
Acute Myocardial Infarction	30	20.0	37.0	*	20.0	40.1	*	23.3	43.9	*
Congestive Heart Failure	35	22.9	15.8	*	31.4	24.5	*	42.9	31.5	*
Pneumonia/Influenza	52	11.5	18.9	9.8	21.2	25.0	8.4	26.9	29.9	7.9
Chronic Obstructive Pulmonary Disease	8	25.0	9.5	*	37.5	15.6	*	50.0	20.8	*
Transient Cerebral Ischemia	15	0.0	4.4	*	6.7	9.1	*	6.7	12.6	*
Stroke	36	13.9	21.5	*	22.2	27.5	*	30.6	32.1	*
Hip Fracture	25	16.0	7.3	*	20.0	12.8	*	20.0	16.2	*
Sepsis	24	8.3	28.7	*	12.5	35.5	*	20.8	41.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	13.2	*	0.0	15.9	*	0.0	18.9	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	6	16.7	4.9	*	16.7	8.7	*	16.7	11.0	*
Open Reduction of Hip Fracture	21	14.3	6.2	*	19.0	11.5	*	19.0	15.1	*
Prostatectomy	28	0.0	1.2	*	0.0	2.9	*	0.0	4.9	*
Cholecystectomy	12	8.3	2.3	*	8.3	3.9	*	8.3	4.9	*
Hysterectomy	6	0.0	0.9	*	0.0	1.8	*	0.0	2.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	869	12.5	11.7	1.3	17.4	16.9	1.4	20.1	21.0	1.7
CONDITIONS:										
Acute Myocardial Infarction	33	51.5	38.4	*	51.5	42.7	*	51.5	46.8	*
Congestive Heart Failure	48	18.8	19.0	*	29.2	28.9	*	35.4	36.2	*
Pneumonia/Influenza	64	25.0	19.6	10.6	32.8	26.2	11.7	39.1	31.5	12.9
Chronic Obstructive Pulmonary Disease	14	35.7	9.4	*	42.9	16.1	*	42.9	21.3	*
Transient Cerebral Ischemia	10	0.0	2.0	*	0.0	4.6	*	0.0	7.5	*
Stroke	37	18.9	19.9	*	27.0	25.6	*	29.7	30.0	*
Hip Fracture	21	4.8	5.7	*	9.5	10.4	*	14.3	13.7	*
Sepsis	26	30.8	35.2	*	34.6	43.8	*	34.6	50.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	5	0.0	7.6	*	0.0	10.7	*	0.0	13.4	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	20.0	3.0	*	20.0	5.7	*	20.0	7.7	*
Open Reduction of Hip Fracture	18	0.0	5.0	*	5.6	9.7	*	11.1	13.0	*
Prostatectomy	41	0.0	1.7	*	4.9	4.2	*	4.9	7.0	*
Cholecystectomy	24	0.0	3.1	*	4.2	5.6	*	4.2	7.4	*
Hysterectomy	6	0.0	0.3	*	0.0	0.6	*	0.0	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

NORTH CLARK COMMUNITY HOSPITAL

2200 Market St
Charlestown, IN 47111

Medicare Provider Number: 150134

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	377	11.1	8.4	1.8	14.1	13.2	1.9	16.4	16.9	2.0
CONDITIONS:										
Acute Myocardial Infarction	1	0.0	32.0	*	0.0	39.4	*	0.0	46.0	*
Congestive Heart Failure	16	0.0	11.4	*	0.0	18.3	*	12.5	24.5	*
Pneumonia/Influenza	23	21.7	15.6	*	26.1	21.5	*	30.4	26.1	*
Chronic Obstructive Pulmonary Disease	5	0.0	7.0	*	0.0	13.2	*	0.0	18.6	*
Transient Cerebral Ischemia	10	0.0	1.4	*	0.0	3.1	*	0.0	4.9	*
Stroke	9	33.3	16.4	*	33.3	22.3	*	33.3	26.6	*
Hip Fracture	2	0.0	5.4	*	0.0	9.2	*	0.0	12.0	*
Sepsis	4	50.0	26.7	*	50.0	31.6	*	50.0	37.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	0.9	*	0.0	2.0	*	0.0	3.1	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	0.8	*	0.0	1.4	*	0.0	1.9	*
Open Reduction of Hip Fracture	1	0.0	5.1	*	0.0	8.6	*	0.0	10.8	*
Prostatectomy	2	0.0	1.4	*	0.0	3.3	*	0.0	5.4	*
Cholecystectomy	14	14.3	4.5	*	14.3	7.1	*	14.3	8.5	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1990

Total Beds	96
Ownership/Control	Private, For Profit
STAFFING:	
Medical Residents/Interns	0
Registered Nurses	22
Licensed Practical Nurses	16

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	Yes
Hospice	No
Intensive Care Unit	Yes
Organ Transplant	No
Rehabilitation	No
Shock Trauma	No

**** Not used in calculating hospital mortality rates.**

NORTH CLARK COMMUNITY HOSPITAL

Medicare Provider Number: 150134

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	389	10.3	10.1	2.2	14.4	15.3	2.2	17.7	19.2	2.5
CONDITIONS:										
Acute Myocardial Infarction	12	41.7	24.1	*	41.7	27.9	*	41.7	31.6	*
Congestive Heart Failure	15	13.3	15.1	*	13.3	23.6	*	13.3	30.7	*
Pneumonia/Influenza	28	10.7	16.9	*	21.4	22.7	*	21.4	27.2	*
Chronic Obstructive Pulmonary Disease	11	0.0	7.3	*	0.0	13.6	*	18.2	18.8	*
Transient Cerebral Ischemia	8	0.0	2.9	*	0.0	6.5	*	12.5	10.2	*
Stroke	15	13.3	23.5	*	13.3	29.3	*	13.3	33.7	*
Hip Fracture	10	20.0	7.8	*	40.0	13.8	*	40.0	17.4	*
Sepsis	2	100.0	36.2	*	100.0	45.2	*	100.0	52.3	*
PROCEDURE:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	5	20.0	3.4	*	20.0	5.5	*	20.0	7.3	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	100.0	3.8	*	100.0	7.2	*	100.0	9.2	*
Open Reduction of Hip Fracture	4	0.0	9.0	*	25.0	16.5	*	25.0	20.9	*
Prostatectomy	5	0.0	0.3	*	0.0	0.7	*	0.0	1.1	*
Cholecystectomy	3	0.0	7.4	*	0.0	13.8	*	0.0	17.9	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	392	9.7	8.6	1.8	13.0	13.3	2.1	15.1	17.1	2.7
CONDITIONS:										
Acute Myocardial Infarction	18	33.3	23.2	*	33.3	26.6	*	33.3	29.8	*
Congestive Heart Failure	16	18.8	16.8	*	31.3	25.0	*	43.8	31.2	*
Pneumonia/Influenza	37	10.8	14.1	*	16.2	19.7	*	21.6	24.2	*
Chronic Obstructive Pulmonary Disease	11	27.3	9.9	*	27.3	17.2	*	27.3	23.0	*
Transient Cerebral Ischemia	7	0.0	1.5	*	0.0	3.4	*	0.0	5.4	*
Stroke	13	23.1	20.5	*	23.1	27.0	*	23.1	32.2	*
Hip Fracture	5	0.0	4.2	*	0.0	7.9	*	0.0	10.6	*
Sepsis	3	33.3	20.7	*	33.3	30.6	*	33.3	37.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	3.5	*	0.0	6.2	*	0.0	8.5	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	2.7	*	0.0	4.9	*	0.0	6.4	*
Open Reduction of Hip Fracture	3	0.0	3.2	*	0.0	6.6	*	0.0	9.3	*
Prostatectomy	9	0.0	1.1	*	0.0	2.8	*	0.0	4.8	*
Cholecystectomy	10	20.0	3.6	*	20.0	7.3	*	20.0	10.4	*
Hysterectomy	3	0.0	0.4	*	0.0	0.9	*	0.0	1.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

NORTH
CLARK
COMMUNITY
HOSPITAL

TO WHOM IT MAY CONCERN

North Clark Community Hospital commends the Health Care Financing Administration (HCFA) for its efforts in compiling and publishing the Hospital Mortality Rates information. This information is a valuable tool in our self-monitoring activities and can be used effectively in our ongoing quality assurance programs.

The Mortality Rates data that has been distributed includes rates for 1987, 1988 and 1989. Only the "All Causes" category has an adequate number of cases to be statistically meaningful for North Clark Community Hospital.

The Predicted Mortality Rate, given on the chart, is a national average that does not necessarily have the same characteristics as our local sampling. Therefore, we do not feel it accurately reflects our true hospital mortality rate. However, use of the HCFA Predicted Mortality Range, calculated at a 95% confidence level, allows for more accurate interpretation of the results.

2200 Market Street
Charlestown, Indiana 47111
Telephone (812) 256-3301

An Affiliate of
HEALTHTRUST
INC. *The Hospital Company*

HOSPITAL MORTALITY RATES

1989

	30 Days	90 Days	180 Days
Predicted Range	12.0-4.9	16.9-9.5	20.8-13.0
North Clark Community Hospital Observed Mortality Rate	11.1	14.1	16.4

1988

	30 Days	90 Days	180 Days
Predicted Range	14.4-5.8	19.6-11.0	24.1-14.3
North Clark Community Hospital Observed Mortality Rate	10.3	14.4	17.7

1987

	30 Days	90 Days	180 Days
Predicted Range	12.2-5.1	17.4-9.2	22.4-11.8
North Clark Community Hospital Observed Mortality Rate	9.7	13.0	15.1

It is evident from the above that the hospital's observed mortality rate falls within the range of predicted mortality in each category and year.

When the "All Causes" category is broken down into "Conditions and "Procedures", the number of cases is too small to permit satisfactory estimation of the standard deviation, as HCFA states in the report. Therefore, this data is not meaningful for our facility and no conclusions can be drawn from it.

Again, North Clark Community Hospital applauds the efforts of HCFA in supplying this information to the public and the healthcare industry.

ORANGE COUNTY HOSPITAL

R.R. 4, Box 150
Paoli, IN 47454

Medicare Provider Number: 150071

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	295	12.2	14.4	2.5	16.6	19.7	3.2	19.7	24.0	3.3
CONDITIONS:										
Acute Myocardial Infarction	33	18.2	30.9	*	21.2	34.6	*	24.2	38.2	*
Congestive Heart Failure	15	13.3	14.2	*	13.3	21.7	*	13.3	28.1	*
Pneumonia/Influenza	34	14.7	15.9	*	26.5	21.5	*	26.5	26.1	*
Chronic Obstructive Pulmonary Disease	6	0.0	11.6	*	0.0	15.7	*	16.7	19.3	*
Transient Cerebral Ischemia	2	0.0	1.8	*	0.0	4.1	*	0.0	6.7	*
Stroke	15	13.3	22.7	*	20.0	29.5	*	20.0	34.3	*
Hip Fracture	4	0.0	10.7	*	0.0	19.7	*	0.0	26.2	*
Sepsis	6	33.3	33.5	*	33.3	42.7	*	33.3	48.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	0.0	12.1	*	0.0	22.6	*	0.0	29.9	*
Open Reduction of Hip Fracture	2	0.0	6.7	*	0.0	12.6	*	0.0	16.8	*
Prostatectomy	4	0.0	0.9	*	0.0	2.0	*	0.0	3.3	*
Cholecystectomy	4	0.0	5.2	*	0.0	11.0	*	0.0	15.2	*
Hysterectomy	4	0.0	0.2	*	0.0	0.3	*	0.0	0.5	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	38
Occupancy Rate	37
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	12
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	(Not Available)
Registered Nurses	(Not Available)
Licensed Practical Nurses	(Not Available)

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

ORANGE COUNTY HOSPITAL

Medicare Provider Number: 150071

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	361	16.3	13.5	2.2	21.3	19.4	2.6	23.5	23.9	2.3
CONDITIONS:										
Acute Myocardial Infarction	21	23.8	34.1	*	28.6	38.3	*	33.3	42.2	*
Congestive Heart Failure	19	21.1	17.1	*	26.3	25.5	*	31.6	32.3	*
Pneumonia/Influenza	50	18.0	16.7	*	24.0	22.7	*	26.0	27.3	*
Chronic Obstructive Pulmonary Disease	3	0.0	8.5	*	0.0	16.8	*	0.0	22.8	*
Transient Cerebral Ischemia	3	0.0	2.4	*	33.3	5.2	*	33.3	8.3	*
Stroke	21	23.8	19.8	*	23.8	25.7	*	23.8	30.3	*
Hip Fracture	4	0.0	5.2	*	0.0	8.9	*	0.0	11.3	*
Sepsis	5	60.0	26.1	*	80.0	31.4	*	80.0	37.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	0.0	3.0	*	0.0	5.6	*	0.0	7.5	*
Open Reduction of Hip Fracture	0									
Prostatectomy	4	0.0	1.8	*	0.0	4.6	*	0.0	7.7	*
Cholecystectomy	13	15.4	7.3	*	15.4	14.7	*	30.8	20.2	*
Hysterectomy	2	0.0	3.6	*	0.0	6.9	*	50.0	10.2	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	371	12.9	11.8	1.8	16.4	17.1	2.2	18.6	21.3	2.4
CONDITIONS:										
Acute Myocardial Infarction	16	18.8	29.1	*	18.8	33.6	*	18.8	37.7	*
Congestive Heart Failure	15	26.7	16.9	*	40.0	25.2	*	40.0	31.9	*
Pneumonia/Influenza	45	17.8	16.3	*	24.4	22.4	*	24.4	27.2	*
Chronic Obstructive Pulmonary Disease	5	20.0	7.2	*	20.0	13.6	*	20.0	18.7	*
Transient Cerebral Ischemia	5	0.0	1.9	*	0.0	4.1	*	0.0	6.6	*
Stroke	13	23.1	21.6	*	30.8	27.8	*	38.5	32.5	*
Hip Fracture	4	0.0	7.8	*	0.0	14.0	*	0.0	18.0	*
Sepsis	2	0.0	8.0	*	0.0	12.8	*	0.0	16.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	0.0	6.9	*	0.0	13.0	*	0.0	17.0	*
Open Reduction of Hip Fracture	0									
Prostatectomy	8	0.0	2.2	*	0.0	5.8	*	0.0	10.2	*
Cholecystectomy	8	12.5	1.9	*	12.5	3.6	*	12.5	4.8	*
Hysterectomy	1	0.0	0.5	*	0.0	1.1	*	0.0	1.5	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

OUR LADY OF MERCY HOSPITAL

U S Highway 30
Dyer, IN 46311

Medicare Provider Number: 150090

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,011	7.2	8.6	1.2	12.0	12.8	1.6	14.7	16.1	1.6
CONDITIONS:										
Acute Myocardial Infarction	21	33.3	29.9	*	42.9	32.7	*	42.9	35.9	*
Congestive Heart Failure	46	6.5	12.7	*	15.2	19.8	*	23.9	25.8	*
Pneumonia/Influenza	30	16.7	13.5	*	20.0	18.3	*	23.3	22.4	*
Chronic Obstructive Pulmonary Disease	7	0.0	10.2	*	0.0	16.3	*	0.0	21.8	*
Transient Cerebral Ischemia	12	8.3	1.7	*	8.3	3.6	*	8.3	5.6	*
Stroke	49	12.2	19.3	*	12.2	26.2	*	18.4	30.6	*
Hip Fracture	18	11.1	6.8	*	11.1	12.0	*	11.1	15.4	*
Sepsis	27	22.2	34.2	*	37.0	43.5	*	37.0	50.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	12	8.3	8.4	*	8.3	13.3	*	8.3	17.2	*
Carotid Endarterectomy	3	0.0	1.4	*	0.0	2.8	*	0.0	4.1	*
Hip Replacement/Reconstruction	13	7.7	4.4	*	7.7	8.1	*	7.7	10.7	*
Open Reduction of Hip Fracture	5	20.0	5.6	*	20.0	10.0	*	20.0	12.9	*
Prostatectomy	29	0.0	3.0	*	3.4	5.0	*	3.4	7.0	*
Cholecystectomy	12	0.0	2.1	*	0.0	3.7	*	0.0	4.6	*
Hysterectomy	7	0.0	1.0	*	0.0	2.2	*	0.0	3.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	284
Occupancy Rate	59
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	124
Percent of Physicians Board Certified Specialists	56
Medical Residents/Interns	0
Registered Nurses	187
Licensed Practical Nurses	1

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	Yes
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

OUR LADY OF MERCY HOSPITAL

Medicare Provider Number: 150090

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,016	7.9	9.0	1.4	12.5	13.4	2.0	15.6	16.9	2.3
CONDITIONS:										
Acute Myocardial Infarction	27	25.9	26.3	*	25.9	28.9	*	25.9	32.0	*
Congestive Heart Failure	55	5.5	12.5	6.1	12.7	19.5	6.5	18.2	25.4	7.2
Pneumonia/Influenza	29	10.3	16.3	*	13.8	22.1	*	27.6	26.6	*
Chronic Obstructive Pulmonary Disease	11	27.3	11.1	*	36.4	17.2	*	45.5	22.0	*
Transient Cerebral Ischemia	14	0.0	2.4	*	0.0	5.1	*	0.0	8.0	*
Stroke	44	11.4	19.3	*	13.6	25.0	*	13.6	29.4	*
Hip Fracture	13	7.7	6.2	*	15.4	11.2	*	15.4	14.5	*
Sepsis	21	23.8	26.6	*	33.3	32.7	*	33.3	38.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	11	18.2	5.0	*	36.4	8.6	*	36.4	12.0	*
Carotid Endarterectomy	5	0.0	1.1	*	0.0	1.9	*	0.0	2.7	*
Hip Replacement/Reconstruction	9	11.1	5.2	*	11.1	9.1	*	11.1	11.6	*
Open Reduction of Hip Fracture	3	0.0	4.4	*	0.0	9.0	*	0.0	12.5	*
Prostatectomy	28	0.0	1.5	*	0.0	2.7	*	7.1	4.2	*
Cholecystectomy	15	6.7	2.1	*	6.7	3.9	*	6.7	5.2	*
Hysterectomy	7	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,052	9.6	9.7	0.9	14.6	14.7	1.3	16.9	18.5	1.6
CONDITIONS:										
Acute Myocardial Infarction	27	29.6	29.6	*	29.6	33.3	*	29.6	36.8	*
Congestive Heart Failure	63	11.1	14.0	5.2	22.2	21.6	5.3	25.4	28.1	6.4
Pneumonia/Influenza	47	17.0	15.7	*	17.0	21.2	*	17.0	25.6	*
Chronic Obstructive Pulmonary Disease	21	4.8	10.1	*	4.8	16.5	*	19.0	21.7	*
Transient Cerebral Ischemia	23	0.0	1.7	*	0.0	3.7	*	4.3	5.9	*
Stroke	34	29.4	22.4	*	35.3	28.9	*	38.2	33.5	*
Hip Fracture	21	0.0	7.1	*	14.3	12.6	*	14.3	16.2	*
Sepsis	27	14.8	31.7	*	37.0	41.8	*	44.4	49.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	11	0.0	2.7	*	9.1	5.6	*	9.1	8.6	*
Carotid Endarterectomy	6	0.0	1.7	*	0.0	3.0	*	0.0	4.2	*
Hip Replacement/Reconstruction	10	0.0	5.2	*	20.0	9.4	*	20.0	12.1	*
Open Reduction of Hip Fracture	10	0.0	7.5	*	10.0	14.1	*	10.0	18.4	*
Prostatectomy	35	2.9	1.3	*	5.7	3.2	*	8.6	5.4	*
Cholecystectomy	19	10.5	3.1	*	10.5	4.7	*	10.5	6.1	*
Hysterectomy	3	0.0	0.4	*	0.0	0.8	*	0.0	1.0	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

PARKVIEW MEMORIAL HOSPITAL INC

2200 Randalia Drive
Fort Wayne, IN 46805

Medicare Provider Number: 150021

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	4,425	8.8	9.4	0.5	13.1	14.1	0.7	16.4	17.8	0.9
CONDITIONS:										
Acute Myocardial Infarction	134	21.6	27.3	4.9	23.1	30.2	5.5	23.9	33.4	6.3
Congestive Heart Failure	248	11.3	15.2	4.3	19.0	23.2	5.5	26.2	30.0	6.4
Pneumonia/Influenza	146	17.1	19.0	3.7	23.3	25.5	4.0	26.7	30.5	5.5
Chronic Obstructive Pulmonary Disease	49	12.2	7.4	*	16.3	13.2	*	24.5	18.4	*
Transient Cerebral Ischemia	46	0.0	1.7	*	2.2	3.8	*	8.7	6.0	*
Stroke	136	18.4	23.9	5.3	24.3	29.8	6.2	29.4	34.2	5.5
Hip Fracture	140	11.4	7.1	3.7	17.1	12.6	5.2	20.0	16.4	4.9
Sepsis	45	37.8	28.9	*	44.4	37.5	*	48.9	44.2	*
PROCEDURES:										
Angioplasty	95	3.2	3.9	2.1	6.3	4.9	2.5	7.4	6.1	3.1
Coronary Artery Bypass Graft	118	3.4	6.6	3.5	5.1	9.0	4.4	5.1	10.4	4.6
Initial Pacemaker Insertion	60	3.3	3.4	2.4	3.3	6.3	4.5	5.0	9.0	6.7
Carotid Endarterectomy	38	0.0	1.6	*	5.3	3.0	*	5.3	4.5	*
Hip Replacement/Reconstruction	172	2.9	2.5	1.4	4.1	4.7	1.9	5.2	6.4	2.5
Open Reduction of Hip Fracture	82	11.0	6.3	4.8	18.3	11.7	6.8	20.7	15.3	6.5
Prostatectomy	136	1.5	1.2	1.4	3.7	2.9	1.8	5.9	5.0	2.3
Cholecystectomy	63	3.2	3.4	2.7	3.2	5.2	3.3	6.3	6.4	3.1
Hysterectomy	30	3.3	0.9	*	3.3	1.8	*	3.3	2.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1988

Total Beds	607
Occupancy Rate	70
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	277
Percent of Physicians Board Certified Specialists	83
Medical Residents/Interns	0
Registered Nurses	550
Licensed Practical Nurses	121

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

PARKVIEW MEMORIAL HOSPITAL INC

Medicare Provider Number: 150021

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	4,123	8.9	9.3	0.7	14.1	14.1	0.9	17.6	17.8	1.0
CONDITIONS:										
Acute Myocardial Infarction	108	26.9	29.3	4.7	28.7	32.5	5.3	29.6	36.1	5.7
Congestive Heart Failure	193	17.1	16.3	2.9	32.6	24.7	3.9	43.0	31.6	4.8
Pneumonia/Influenza	103	19.4	19.0	3.9	28.2	25.5	4.7	29.1	30.5	4.6
Chronic Obstructive Pulmonary Disease	30	6.7	8.7	*	20.0	14.5	*	23.3	19.4	*
Transient Cerebral Ischemia	55	1.8	1.7	*	5.5	3.6	*	5.5	5.6	*
Stroke	137	20.4	20.9	3.5	28.5	27.0	4.1	30.7	31.5	4.1
Hip Fracture	145	8.3	7.2	2.5	12.4	12.9	2.8	15.9	16.4	3.4
Sepsis	34	20.6	31.7	*	29.4	39.6	*	44.1	46.1	*
PROCEDURES:										
Angioplasty	72	5.6	4.6	2.6	5.6	5.8	3.7	9.7	7.1	4.7
Coronary Artery Bypass Graft	87	8.0	7.0	2.8	8.0	9.2	3.2	8.0	10.6	3.8
Initial Pacemaker Insertion	41	2.4	4.4	*	7.3	7.5	*	9.8	10.3	*
Carotid Endarterectomy	35	2.9	1.6	*	5.7	3.0	*	5.7	4.5	*
Hip Replacement/Reconstruction	173	1.7	2.7	1.5	2.3	5.0	2.3	4.0	6.6	2.4
Open Reduction of Hip Fracture	60	6.7	6.9	4.3	11.7	13.0	5.0	16.7	16.8	5.0
Prostatectomy	135	0.0	1.3	1.2	0.7	3.0	1.9	2.2	5.0	2.5
Cholecystectomy	68	10.3	4.3	3.9	17.6	7.5	4.9	17.6	9.7	4.7
Hysterectomy	38	0.0	0.8	*	0.0	1.7	*	0.0	2.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	4,190	8.8	8.6	0.5	13.7	13.1	0.8	17.2	16.6	0.7
CONDITIONS:										
Acute Myocardial Infarction	115	29.6	32.5	6.0	35.7	36.3	6.3	36.5	40.1	5.4
Congestive Heart Failure	172	21.5	17.4	3.5	33.7	26.1	5.1	40.1	33.2	4.9
Pneumonia/Influenza	92	15.2	16.9	4.7	19.6	22.9	5.3	25.0	27.8	5.6
Chronic Obstructive Pulmonary Disease	41	17.1	10.8	*	26.8	17.0	*	31.7	22.0	*
Transient Cerebral Ischemia	59	3.4	1.8	1.9	5.1	3.9	3.4	10.2	6.1	4.6
Stroke	132	18.9	20.3	3.6	22.7	26.4	4.6	27.3	30.9	4.6
Hip Fracture	157	7.0	6.0	2.1	12.1	11.2	3.7	17.2	14.8	4.9
Sepsis	18	27.8	36.9	*	38.9	45.9	*	44.4	52.3	*
PROCEDURES:										
Angioplasty	60	10.0	5.4	5.4	11.7	6.4	6.0	13.3	7.7	6.8
Coronary Artery Bypass Graft	89	5.6	6.7	2.7	6.7	9.1	3.5	7.9	10.5	4.0
Initial Pacemaker Insertion	40	5.0	3.8	*	10.0	7.5	*	17.5	10.7	*
Carotid Endarterectomy	37	2.7	1.7	*	2.7	3.2	*	2.7	4.8	*
Hip Replacement/Reconstruction	155	3.2	3.1	1.5	5.8	5.7	1.9	7.7	7.6	2.7
Open Reduction of Hip Fracture	75	4.0	4.8	2.6	10.7	9.5	3.7	16.0	12.8	6.0
Prostatectomy	139	1.4	1.2	1.0	2.9	2.8	1.4	4.3	4.5	1.8
Cholecystectomy	96	5.2	3.5	2.3	9.4	6.6	3.3	11.5	8.8	3.9
Hysterectomy	36	0.0	1.4	*	2.8	3.0	*	2.8	4.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

PARKVIEW

January 15, 1991

Sandra Kappert
Health Care Financing Administration
Health Standards and Quality Bureau
2-D-2 Meadows East Building
6325 Security Boulevard
Bultimore, Maryland 21207

Subject: Medicare Mortality Comments
Medicare Provider Number: 150021

Dear Ms. Kappert:

Parkview Memorial Hospital acknowledges receipt of the 1989 HCFA mortality information pertaining to Medicare patients cared for at our facility in 1989. The following reflect Parkview's responses for publication.

Comment for Publication:
Of all causes reported in the HCFA data, Parkview's mortality rate falls below the predicted range for 1989 in the 30, 90, 180 days calculated.

Of the eight (8) diagnostic categories and the nine (9) procedures selected and reported by HCFA Parkview's data demonstrated improvement in several diagnostic and procedural categories, from 1988 and 1987 reported data.

Parkview Memorial Hospital is a regional referral center accepting acutely ill patients. Thirty-eight percent of the cases in the HCFA analysis were transferred patients from outlying health care facilities or rural areas.

It is not possible to determine the accuracy of HCFA information regarding those patients who presumably died post discharge. Information concerning cause of death is not available to Parkview and possibly would be unrelated to the reason the patient was initially hospitalized.

Variations in actual mortality rate from year to year are monitored at Parkview. This information is used to identify the potential need for in-depth focus review of potential patterns or trends.

PARKVIEW MEMORIAL HOSPITAL
2200 Randallia Drive Fort Wayne, Indiana 46805 Telephone (219) 484-6636

Sandra Kappert
January 15, 1991
Page 2

Clinical review of important aspects of patient care, including deaths, is consistently performed at Parkview Memorial Hospital through the peer review process.

Sincerely,

Eugene L. Faley

Gene Faley
Vice President
Medical Staff Affairs

GF/jp

1325Z

PERRY COUNTY MEMORIAL HOSPITAL

1 Hospital Rd
Tell City, IN 47586

Medicare Provider Number: 150070

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	313	10.5	11.2	2.5	16.3	16.6	2.4	19.5	20.8	2.6
CONDITIONS:										
Acute Myocardial Infarction	12	33.3	25.8	*	33.3	29.3	*	50.0	33.1	*
Congestive Heart Failure	21	14.3	14.8	*	19.0	23.0	*	19.0	29.7	*
Pneumonia/Influenza	19	10.5	13.9	*	21.1	18.9	*	26.3	23.0	*
Chronic Obstructive Pulmonary Disease	4	0.0	6.4	*	0.0	11.2	*	0.0	15.7	*
Transient Cerebral Ischemia	11	0.0	2.4	*	9.1	5.6	*	9.1	9.2	*
Stroke	15	26.7	28.3	*	26.7	33.7	*	26.7	38.2	*
Hip Fracture	8	12.5	8.4	*	12.5	14.4	*	12.5	18.2	*
Sepsis	7	0.0	27.2	*	28.6	32.9	*	28.6	38.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	8.0	*	0.0	13.7	*	0.0	17.6	*
Open Reduction of Hip Fracture	6	16.7	7.8	*	16.7	14.3	*	16.7	18.4	*
Prostatectomy	5	0.0	0.5	*	0.0	1.1	*	0.0	1.8	*
Cholecystectomy	5	0.0	2.0	*	0.0	3.2	*	0.0	4.3	*
Hysterectomy	2	0.0	0.2	*	0.0	0.3	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1988

Total Beds	55
Occupancy Rate	26
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	19
Percent of Physicians Board Certified Specialists	11
Medical Residents/Interns	0
Registered Nurses	28
Licensed Practical Nurses	12

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

PERRY COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 150070

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	349	14.0	11.7	2.6	18.3	16.9	2.7	20.1	21.0	2.8
CONDITIONS:										
Acute Myocardial Infarction	17	23.5	40.7	*	35.3	45.5	*	35.3	49.7	*
Congestive Heart Failure	18	22.2	14.6	*	27.8	22.3	*	33.3	28.8	*
Pneumonia/Influenza	33	27.3	18.3	*	36.4	24.4	*	39.4	29.1	*
Chronic Obstructive Pulmonary Disease	4	0.0	6.2	*	0.0	11.6	*	0.0	16.7	*
Transient Cerebral Ischemia	9	0.0	1.8	*	11.1	3.9	*	11.1	6.3	*
Stroke	9	66.7	25.2	*	66.7	31.9	*	66.7	37.1	*
Hip Fracture	10	10.0	10.2	*	10.0	17.5	*	20.0	22.1	*
Sepsis	8	25.0	33.9	*	37.5	44.1	*	37.5	51.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	20.0	13.9	*	20.0	24.4	*	20.0	30.1	*
Open Reduction of Hip Fracture	6	0.0	6.2	*	0.0	11.6	*	16.7	15.4	*
Prostatectomy	5	0.0	1.1	*	0.0	3.0	*	0.0	5.4	*
Cholecystectomy	9	0.0	1.2	*	0.0	2.3	*	0.0	3.1	*
Hysterectomy	0									

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	323	14.6	13.0	2.7	19.5	18.1	2.5	22.6	22.1	3.0
CONDITIONS:										
Acute Myocardial Infarction	17	41.2	27.8	*	41.2	31.1	*	52.9	35.0	*
Congestive Heart Failure	16	18.8	15.9	*	25.0	24.0	*	25.0	30.9	*
Pneumonia/Influenza	34	17.6	16.8	*	23.5	22.9	*	26.5	27.6	*
Chronic Obstructive Pulmonary Disease	6	16.7	9.5	*	16.7	14.4	*	16.7	18.8	*
Transient Cerebral Ischemia	1	0.0	1.9	*	0.0	4.2	*	0.0	6.7	*
Stroke	21	33.3	29.4	*	42.9	35.8	*	42.9	40.9	*
Hip Fracture	8	0.0	6.1	*	0.0	10.4	*	0.0	13.7	*
Sepsis	4	25.0	24.4	*	25.0	31.7	*	25.0	37.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	0.0	6.2	*	0.0	10.6	*	0.0	13.6	*
Open Reduction of Hip Fracture	5	0.0	5.1	*	0.0	9.3	*	0.0	12.5	*
Prostatectomy	2	0.0	0.4	*	0.0	0.7	*	0.0	1.2	*
Cholecystectomy	2	0.0	0.9	*	0.0	1.7	*	0.0	2.4	*
Hysterectomy	2	0.0	0.2	*	0.0	0.4	*	0.0	0.5	

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

PORTER MEMORIAL HOSPITAL

814 Laporte Ave
Valparaiso, IN 46383

Medicare Provider Number: 150035

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,655	8.4	9.1	0.8	13.4	13.7	0.7	17.3	17.3	0.7
CONDITIONS:										
Acute Myocardial Infarction	58	32.8	26.9	8.1	34.5	29.6	9.2	37.9	32.8	9.1
Congestive Heart Failure	98	16.3	14.3	5.1	23.5	21.8	5.5	32.7	28.2	7.6
Pneumonia/Influenza	171	12.3	16.9	4.5	18.7	23.0	4.2	27.5	27.7	3.5
Chronic Obstructive Pulmonary Disease	45	6.7	13.3	*	8.9	20.7	*	11.1	26.8	*
Transient Cerebral Ischemia	86	0.0	1.8	2.2	2.3	3.9	3.1	4.7	6.2	3.6
Stroke	93	21.5	20.2	4.4	28.0	26.5	5.6	34.4	31.0	6.2
Hip Fracture	53	3.8	6.2	5.0	7.5	11.0	5.9	11.3	14.3	5.6
Sepsis	63	22.2	33.3	10.2	28.6	41.4	10.8	36.5	48.0	10.3
PROCEDURES:										
Angioplasty	19	5.3	3.5	*	5.3	4.8	*	5.3	6.1	*
Coronary Artery Bypass Graft	49	16.3	6.4	*	22.4	9.0	*	22.4	10.7	*
Initial Pacemaker Insertion	24	0.0	3.9	*	0.0	7.5	*	4.2	10.9	*
Carotid Endarterectomy	25	4.0	1.7	*	4.0	3.3	*	4.0	4.8	*
Hip Replacement/Reconstruction	40	2.5	4.4	*	5.0	7.6	*	7.5	9.7	*
Open Reduction of Hip Fracture	17	5.9	5.9	*	17.6	10.9	*	23.5	14.4	*
Prostatectomy	103	0.0	1.4	1.7	0.0	2.7	2.8	2.9	4.3	3.1
Cholecystectomy	52	1.9	3.7	3.7	7.7	6.1	4.2	9.6	7.6	5.0
Hysterectomy	19	0.0	1.1	*	0.0	2.3	*	0.0	3.5	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	379
Occupancy Rate	58
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	129
Percent of Physicians Board Certified Specialists	62
Medical Residents/Interns	0
Registered Nurses	337
Licensed Practical Nurses	16

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

PORTER MEMORIAL HOSPITAL

Medicare Provider Number: 150035

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,647	8.3	8.7	0.6	14.1	13.0	1.1	16.5	16.6	0.7
CONDITIONS:										
Acute Myocardial Infarction	57	29.8	28.7	6.1	31.6	31.8	6.2	33.3	35.3	6.6
Congestive Heart Failure	120	17.5	15.0	3.9	26.7	23.1	5.3	32.5	29.8	6.3
Pneumonia/Influenza	147	12.2	17.2	4.8	22.4	23.1	3.6	28.6	27.8	4.1
Chronic Obstructive Pulmonary Disease	52	9.6	10.4	5.2	17.3	17.2	5.2	19.2	22.6	6.5
Transient Cerebral Ischemia	82	4.9	2.2	2.5	7.3	4.9	3.3	9.8	7.7	3.3
Stroke	83	20.5	21.1	4.9	28.9	27.5	5.0	28.9	32.1	7.1
Hip Fracture	49	2.0	6.3	*	20.4	11.8	*	22.4	15.4	*
Sepsis	59	28.8	33.0	9.2	30.5	40.8	11.6	37.3	47.5	13.4
PROCEDURES:										
Angioplasty	5	0.0	5.8	*	0.0	6.6	*	0.0	7.7	*
Coronary Artery Bypass Graft	10	50.0	6.8	*	50.0	8.7	*	50.0	10.0	*
Initial Pacemaker Insertion	18	5.6	5.1	*	22.2	8.4	*	22.2	11.8	*
Carotid Endarterectomy	43	4.7	1.6	*	9.3	3.0	*	9.3	4.4	*
Hip Replacement/Reconstruction	42	0.0	2.7	*	2.4	5.2	*	2.4	7.0	*
Open Reduction of Hip Fracture	25	4.0	5.8	*	28.0	11.5	*	32.0	15.5	*
Prostatectomy	125	0.8	1.7	1.4	1.6	3.4	2.2	2.4	5.3	3.1
Cholecystectomy	40	5.0	3.5	*	5.0	6.2	*	5.0	7.8	*
Hysterectomy	14	0.0	0.2	*	0.0	0.3	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,591	9.1	8.6	0.6	14.8	13.0	1.1	18.5	16.6	1.1
CONDITIONS:										
Acute Myocardial Infarction	47	12.8	27.0	*	21.3	30.2	*	21.3	33.6	*
Congestive Heart Failure	89	16.9	16.1	4.7	23.6	24.2	6.8	25.8	31.0	9.3
Pneumonia/Influenza	122	24.6	16.9	4.9	32.0	23.0	6.2	36.1	27.9	5.8
Chronic Obstructive Pulmonary Disease	55	21.8	9.5	6.8	27.3	16.7	6.6	36.4	22.5	8.3
Transient Cerebral Ischemia	86	3.5	2.1	2.0	3.5	4.7	4.2	10.5	7.5	4.4
Stroke	98	21.4	23.4	5.1	34.7	29.7	5.5	40.8	34.5	7.5
Hip Fracture	61	1.6	5.7	4.0	13.1	10.4	5.5	16.4	13.6	4.8
Sepsis	41	24.4	29.6	*	34.1	38.0	*	41.5	45.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	27	3.7	2.6	*	7.4	5.1	*	7.4	7.8	*
Carotid Endarterectomy	48	8.3	1.6	*	10.4	3.1	*	12.5	4.5	*
Hip Replacement/Reconstruction	50	0.0	1.9	*	6.0	3.6	*	6.0	4.9	*
Open Reduction of Hip Fracture	28	0.0	5.3	*	7.1	9.9	*	10.7	13.1	*
Prostatectomy	110	0.9	0.8	0.9	2.7	1.8	1.6	2.7	3.0	1.7
Cholecystectomy	61	3.3	3.7	2.6	8.2	6.6	4.3	8.2	8.5	3.7
Hysterectomy	21	0.0	0.7	*	0.0	1.5	*	0.0	2.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

149.1

Wiley N. Carr, FACHE
President
and
Chief Executive Officer

PORTER MEMORIAL HOSPITAL

814 LaPorte Avenue • Valparaiso, Indiana 46383
Telephone (219) 465-4600

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January 10, 1991 Medicare Provider #150035

Healthcare Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2D2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Mrs. Kappert:

This letter is in response to our review of the published HCFA Mortality Data for 1987-1989. We offer the following comments:

1. We are very pleased to see our Observed Mortality Rate (OBS) has dropped from previous HCFA published mortality data in 1986 (12.8%) to the current (1989) rate of 8.4%.

2. In 1987, 1988, and 1989 the relative mortality rates 31 to 180 days after admission to our hospital were consistently higher than the relative mortality rates 30 days after admission. This year's release is the first which provides follow-up beyond 30 days. We believe the impact of hospital care on patient survival is greatest during the month following admission, and that death occurring from 31 to 180 days after admission is not likely to be a direct result of the quality of care provided during hospitalization.

3. Of the 575 Medicare patient deaths assigned to Porter Memorial Hospital for calendar year 1989, 208 deaths occurred at Porter Memorial Hospital during the hospital stay assigned to the patient. Of the remaining 367 deaths assigned to Porter Memorial Hospital, only 156 patients actually expired during a stay at Porter Memorial Hospital. This means that of the 575 deaths assigned to Porter Memorial Hospital, only 364 Medicare patients actually expired during a hospitalization at Porter Memorial Hospital. The remaining 211 patients who expired did not expire during any Porter Memorial Hospital admission. This means a full 37% of the patient deaths assigned to Porter Memorial Hospital were for patients who did not expire during any hospitalization at Porter Memorial Hospital.

4. The Porter Memorial Hospital observed mortality rate for some of the conditions and procedures identified by HCFA exceed the predicted mortality rates. However, also note that in many instances the number of patients involved are so small as to make the mortality rates extremely unstable and, therefore, statistically invalid.

In summary, we believe the quality of patient care provided at Porter Memorial Hospital is excellent as proven by our significant (greater than 50%) decrease in mortality rate during the four years cited in your report. Porter Memorial Hospital is a referral for extensive programs in oncology, cardiology, pulmonary disease, trauma and cardiac surgery. Our medical staff has an extensive quality assurance program. This is attested to by our accreditation from the JCAHO and successful inspections by our State Board of Health. We will continue to use the information provided to us by HCFA as a part of our total quality improvement program at Porter Memorial Hospital.

Sincerely,

Wiley N. Carr, FACHE
President and
Chief Executive Officer

WNC/ks

cc: Board of Trustees
Medical Staff Executive Committee
Quality Assessment Committee
Executive Team
Amy Wozniak
Helene Strimbu

PULASKI MEMORIAL HOSPITAL

616 East 13th Street
Winamac, IN 46996

Medicare Provider Number: 150095

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	328	9.1	9.9	2.1	14.9	14.8	2.1	18.9	18.7	2.3
CONDITIONS:										
Acute Myocardial Infarction	11	27.3	30.2	*	27.3	33.5	*	27.3	37.8	*
Congestive Heart Failure	18	33.3	16.2	*	38.9	25.5	*	38.9	32.9	*
Pneumonia/Influenza	25	8.0	14.3	*	12.0	19.1	*	16.0	23.2	*
Chronic Obstructive Pulmonary Disease	4	0.0	5.2	*	0.0	9.2	*	0.0	13.2	*
Transient Cerebral Ischemia	11	0.0	2.7	*	0.0	6.2	*	9.1	10.2	*
Stroke	17	23.5	17.5	*	35.3	22.4	*	41.2	26.5	*
Hip Fracture	11	9.1	8.7	*	18.2	15.1	*	18.2	19.1	*
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	0.0	12.8	*	0.0	23.1	*	0.0	29.5	*
Open Reduction of Hip Fracture	5	0.0	7.8	*	0.0	13.9	*	0.0	17.8	*
Prostatectomy	9	0.0	0.7	*	0.0	1.6	*	0.0	2.8	*
Cholecystectomy	5	0.0	1.6	*	0.0	2.6	*	0.0	3.3	*
Hysterectomy	2	0.0	1.9	*	0.0	4.4	*	50.0	6.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	47
Occupancy Rate	34
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	16
Percent of Physicians Board Certified Specialists	75
Medical Residents/Interns	0
Registered Nurses	33
Licensed Practical Nurses	7

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

PULASKI MEMORIAL HOSPITAL

Medicare Provider Number: 150095

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	342	13.2	10.0	2.4	17.3	14.6	2.4	19.3	18.1	2.6
CONDITIONS:										
Acute Myocardial Infarction	11	9.1	31.0	*	9.1	34.0	*	9.1	38.2	*
Congestive Heart Failure	24	29.2	15.0	*	37.5	22.4	*	54.2	28.8	*
Pneumonia/Influenza	22	27.3	19.2	*	27.3	25.6	*	27.3	30.6	*
Chronic Obstructive Pulmonary Disease	4	0.0	7.8	*	25.0	12.8	*	25.0	17.2	*
Transient Cerebral Ischemia	6	16.7	2.1	*	16.7	4.8	*	16.7	7.7	*
Stroke	21	33.3	24.8	*	38.1	31.7	*	38.1	37.0	*
Hip Fracture	16	0.0	8.7	*	12.5	15.0	*	12.5	18.8	*
Sepsis	2	50.0	38.0	*	50.0	42.2	*	50.0	47.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	3.6	*	0.0	6.7	*	0.0	9.8	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	0.0	10.7	*	0.0	18.4	*	0.0	22.6	*
Open Reduction of Hip Fracture	11	0.0	6.8	*	9.1	12.6	*	9.1	16.4	*
Prostatectomy	9	0.0	0.8	*	0.0	1.9	*	0.0	3.2	*
Cholecystectomy	5	0.0	2.9	*	0.0	4.2	*	0.0	5.1	*
Hysterectomy	2	0.0	0.1	*	0.0	0.1	*	0.0	0.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	338	13.3	10.5	2.1	18.3	15.1	2.5	21.3	18.9	2.6
CONDITIONS:										
Acute Myocardial Infarction	13	15.4	30.3	*	23.1	33.7	*	30.8	37.9	*
Congestive Heart Failure	19	47.4	17.6	*	52.6	26.1	*	52.6	33.3	*
Pneumonia/Influenza	17	23.5	21.0	*	35.3	27.9	*	35.3	33.0	*
Chronic Obstructive Pulmonary Disease	8	12.5	7.6	*	12.5	12.8	*	12.5	17.0	*
Transient Cerebral Ischemia	9	11.1	1.9	*	11.1	4.1	*	11.1	6.5	*
Stroke	30	10.0	21.8	*	13.3	27.7	*	13.3	32.4	*
Hip Fracture	4	0.0	5.3	*	0.0	9.6	*	0.0	12.7	*
Sepsis	2	100.0	44.8	*	100.0	59.9	*	100.0	67.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	15.0	*	0.0	20.2	*	0.0	22.4	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	8	0.0	2.4	*	0.0	4.4	*	0.0	5.8	*
Open Reduction of Hip Fracture	1	0.0	4.0	*	0.0	8.2	*	0.0	11.3	*
Prostatectomy	2	0.0	0.8	*	0.0	1.8	*	0.0	3.2	*
Cholecystectomy	5	0.0	2.2	*	0.0	3.4	*	0.0	4.1	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

PUTNAM COUNTY HOSPITAL

1542 Bloomington St
Greencastle, IN 46135

Medicare Provider Number: 150027

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	616	8.9	8.0	1.3	14.0	12.3	1.6	17.4	15.9	1.6
CONDITIONS:										
Acute Myocardial Infarction	10	20.0	26.0	*	20.0	29.0	*	20.0	32.0	*
Congestive Heart Failure	37	13.5	13.0	*	21.6	20.9	*	24.3	27.2	*
Pneumonia/Influenza	46	19.6	15.5	*	28.3	21.7	*	28.3	26.3	*
Chronic Obstructive Pulmonary Disease	14	21.4	7.1	*	35.7	12.6	*	35.7	17.4	*
Transient Cerebral Ischemia	8	0.0	1.8	*	12.5	3.9	*	12.5	6.3	*
Stroke	27	11.1	18.6	*	22.2	24.7	*	29.6	28.8	*
Hip Fracture	18	0.0	4.5	*	11.1	8.3	*	16.7	11.2	*
Sepsis	7	14.3	31.3	*	42.9	38.8	*	57.1	45.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	24.7	*	0.0	29.6	*	0.0	32.6	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	5.1	*	0.0	10.0	*	50.0	13.5	*
Open Reduction of Hip Fracture	12	0.0	3.8	*	8.3	7.2	*	8.3	9.7	*
Prostatectomy	24	0.0	0.7	*	0.0	1.7	*	0.0	3.0	*
Cholecystectomy	10	0.0	1.5	*	0.0	2.8	*	0.0	3.6	*
Hysterectomy	5	0.0	0.4	*	0.0	0.8	*	0.0	1.2	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	85
Occupancy Rate	37
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	24
Percent of Physicians Board Certified Specialists	75
Medical Residents/Interns	0
Registered Nurses	37
Licensed Practical Nurses	9

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

PUTNAM COUNTY HOSPITAL

Medicare Provider Number: 150027

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	612	11.9	9.0	1.9	14.9	13.9	1.5	17.3	17.8	1.7
CONDITIONS:										
Acute Myocardial Infarction	16	37.5	27.3	*	37.5	32.1	*	37.5	36.1	*
Congestive Heart Failure	44	18.2	15.9	*	27.3	24.1	*	34.1	31.0	*
Pneumonia/Influenza	51	17.6	17.8	6.1	19.6	24.8	8.6	23.5	30.0	9.4
Chronic Obstructive Pulmonary Disease	9	22.2	14.7	*	22.2	24.3	*	22.2	31.0	*
Transient Cerebral Ischemia	15	0.0	2.1	*	0.0	4.4	*	0.0	6.9	*
Stroke	20	15.0	19.4	*	35.0	26.7	*	40.0	31.8	*
Hip Fracture	25	4.0	5.9	*	8.0	11.2	*	8.0	14.7	*
Sepsis	4	75.0	37.9	*	75.0	55.0	*	75.0	64.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	0.0	2.6	*	0.0	5.4	*	0.0	7.6	*
Open Reduction of Hip Fracture	16	6.3	5.5	*	12.5	10.7	*	12.5	14.4	*
Prostatectomy	17	5.9	1.0	*	5.9	2.4	*	5.9	4.0	*
Cholecystectomy	14	0.0	2.5	*	0.0	4.4	*	0.0	5.4	*
Hysterectomy	3	33.3	0.4	*	33.3	0.7	*	66.7	1.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	665	11.3	8.5	1.5	16.8	13.1	1.8	20.3	16.8	1.9
CONDITIONS:										
Acute Myocardial Infarction	32	34.4	26.5	*	37.5	29.7	*	43.8	33.2	*
Congestive Heart Failure	40	20.0	13.0	*	32.5	20.4	*	35.0	26.5	*
Pneumonia/Influenza	56	8.9	15.5	8.9	16.1	21.8	9.3	23.2	26.8	6.9
Chronic Obstructive Pulmonary Disease	8	25.0	9.5	*	25.0	18.0	*	25.0	24.7	*
Transient Cerebral Ischemia	15	0.0	2.2	*	0.0	4.7	*	0.0	7.4	*
Stroke	32	31.3	19.7	*	34.4	26.9	*	40.6	31.6	*
Hip Fracture	25	8.0	4.1	*	16.0	7.8	*	20.0	10.4	*
Sepsis	6	33.3	24.3	*	66.7	33.0	*	66.7	39.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	3.1	*	0.0	6.4	*	50.0	8.9	*
Open Reduction of Hip Fracture	19	10.5	3.5	*	21.1	7.2	*	21.1	9.8	*
Prostatectomy	19	0.0	0.6	*	0.0	1.6	*	0.0	2.8	*
Cholecystectomy	19	5.3	1.2	*	5.3	2.1	*	5.3	2.9	*
Hysterectomy	2	0.0	0.6	*	0.0	1.1	*	0.0	1.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

RANDOLPH COUNTY HOSPITAL

435 North Oak St
Winchester, IN 47394

Medicare Provider Number: 150054

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	237	8.4	8.0	2.8	15.2	11.9	3.6	17.3	15.1	3.7
CONDITIONS:										
Acute Myocardial Infarction	8	12.5	29.0	*	25.0	32.2	*	37.5	35.4	*
Congestive Heart Failure	11	9.1	12.2	*	27.3	19.5	*	36.4	25.3	*
Pneumonia/Influenza	16	18.8	15.0	*	25.0	20.8	*	25.0	24.4	*
Chronic Obstructive Pulmonary Disease	4	0.0	3.8	*	0.0	7.7	*	0.0	11.3	*
Transient Cerebral Ischemia	3	0.0	1.3	*	0.0	3.0	*	0.0	4.7	*
Stroke	11	27.3	20.7	*	36.4	28.1	*	36.4	32.6	*
Hip Fracture	12	8.3	3.9	*	16.7	7.5	*	25.0	10.0	*
Sepsis	3	33.3	34.0	*	66.7	39.7	*	66.7	46.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	4.3	*	0.0	8.1	*	0.0	10.8	*
Open Reduction of Hip Fracture	8	12.5	3.5	*	25.0	7.0	*	37.5	9.6	*
Prostatectomy	2	0.0	0.5	*	0.0	0.9	*	0.0	1.3	*
Cholecystectomy	6	16.7	0.8	*	16.7	1.4	*	16.7	1.8	*
Hysterectomy	1	0.0	0.2	*	0.0	0.4	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	42
Occupancy Rate	38
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	(Not Available)
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	(Not Available)
Registered Nurses	(Not Available)
Licensed Practical Nurses	(Not Available)

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

RANDOLPH COUNTY HOSPITAL

Medicare Provider Number: 150054

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	245	10.6	8.0	2.2	17.1	12.2	3.3	20.4	15.6	3.6
CONDITIONS:										
Acute Myocardial Infarction	10	50.0	23.9	*	50.0	27.8	*	50.0	31.4	*
Congestive Heart Failure	14	0.0	13.4	*	14.3	21.9	*	14.3	29.1	*
Pneumonia/Influenza	27	22.2	15.0	*	29.6	20.9	*	33.3	25.2	*
Chronic Obstructive Pulmonary Disease	3	0.0	6.9	*	0.0	14.5	*	0.0	20.5	*
Transient Cerebral Ischemia	3	0.0	1.5	*	0.0	3.0	*	0.0	4.6	*
Stroke	15	26.7	19.5	*	26.7	26.1	*	33.3	31.2	*
Hip Fracture	10	0.0	8.0	*	20.0	14.8	*	20.0	19.1	*
Sepsis	2	50.0	20.2	*	50.0	24.0	*	50.0	28.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	3.1	*	0.0	5.1	*	0.0	6.7	*
Open Reduction of Hip Fracture	7	0.0	7.9	*	28.6	15.2	*	28.6	20.2	*
Prostatectomy	0									
Cholecystectomy	5	0.0	1.9	*	0.0	3.2	*	20.0	4.0	*
Hysterectomy	3	0.0	1.2	*	0.0	2.9	*	0.0	4.9	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	221	10.0	6.8	2.9	11.8	10.2	2.2	14.9	13.1	2.7
CONDITIONS:										
Acute Myocardial Infarction	1	0.0	41.6	*	0.0	45.0	*	0.0	49.5	*
Congestive Heart Failure	15	13.3	14.0	*	20.0	21.4	*	40.0	27.6	*
Pneumonia/Influenza	16	18.8	11.6	*	18.8	16.3	*	25.0	20.0	*
Chronic Obstructive Pulmonary Disease	3	0.0	4.0	*	0.0	7.2	*	0.0	9.9	*
Transient Cerebral Ischemia	3	0.0	2.0	*	0.0	3.9	*	0.0	6.2	*
Stroke	5	20.0	17.3	*	20.0	23.5	*	20.0	28.1	*
Hip Fracture	9	11.1	3.4	*	11.1	6.5	*	11.1	8.7	*
Sepsis	7	28.6	18.8	*	28.6	24.1	*	28.6	28.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	1	0.0	3.3	*	0.0	4.8	*	0.0	5.7	*
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	3.0	*	0.0	5.6	*	0.0	7.2	*
Open Reduction of Hip Fracture	6	16.7	2.9	*	16.7	5.8	*	16.7	8.0	*
Prostatectomy	0									
Cholecystectomy	4	0.0	0.9	*	0.0	1.7	*	0.0	2.2	*
Hysterectomy	1	0.0	1.0	*	0.0	2.5	*	0.0	4.2	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

REID MEMORIAL HOSPITAL

1401 Chester Boulevard
Richmond, IN 47374

Medicare Provider Number: 150048

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,909	9.3	9.1	0.6	13.8	13.7	0.7	17.2	17.4	0.7
CONDITIONS:										
Acute Myocardial Infarction	111	24.3	27.8	5.9	29.7	30.9	6.1	31.5	34.5	5.8
Congestive Heart Failure	144	15.3	15.1	4.4	26.4	23.3	5.0	30.6	30.2	4.0
Pneumonia/Influenza	215	12.1	17.0	4.9	18.1	23.1	5.6	22.8	28.0	5.9
Chronic Obstructive Pulmonary Disease	41	14.6	6.4	*	24.4	11.5	*	31.7	16.3	*
Transient Cerebral Ischemia	41	7.3	1.8	*	7.3	4.0	*	7.3	6.4	*
Stroke	92	21.7	20.6	4.3	31.5	27.4	5.4	37.0	32.0	5.9
Hip Fracture	95	5.3	6.7	4.3	9.5	12.0	5.8	13.7	15.7	5.4
Sepsis	22	9.1	23.9	*	13.6	30.0	*	18.2	35.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	30	3.3	3.4	*	3.3	6.6	*	10.0	9.5	*
Carotid Endarterectomy	14	0.0	1.5	*	0.0	3.0	*	7.1	4.3	*
Hip Replacement/Reconstruction	71	8.5	3.2	5.1	11.3	6.1	6.6	12.7	8.3	6.7
Open Reduction of Hip Fracture	40	0.0	6.0	*	2.5	10.9	*	7.5	14.2	*
Prostatectomy	126	1.6	0.9	1.1	1.6	2.2	1.7	2.4	3.8	2.8
Cholecystectomy	62	1.6	2.0	3.1	4.8	3.6	4.1	6.5	4.7	5.2
Hysterectomy	13	7.7	0.4	*	7.7	0.9	*	7.7	1.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	346
Occupancy Rate	64
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	97
Percent of Physicians Board Certified Specialists	68
Medical Residents/Interns	0
Registered Nurses	224
Licensed Practical Nurses	63

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

REID MEMORIAL HOSPITAL

Medicare Provider Number: 150048

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,712	9.8	9.2	0.8	14.7	13.8	1.0	17.8	17.5	1.0
CONDITIONS:										
Acute Myocardial Infarction	98	28.6	27.2	4.6	33.7	30.4	4.9	36.7	33.9	5.1
Congestive Heart Failure	141	14.9	15.9	3.6	22.7	23.7	3.9	30.5	30.3	4.1
Pneumonia/Influenza	162	13.0	16.1	5.8	18.5	21.7	6.8	22.8	26.0	5.8
Chronic Obstructive Pulmonary Disease	29	3.4	5.6	*	17.2	10.1	*	20.7	14.3	*
Transient Cerebral Ischemia	29	0.0	2.4	*	0.0	5.5	*	0.0	8.6	*
Stroke	98	21.4	20.9	4.2	29.6	27.4	5.2	32.7	31.9	4.8
Hip Fracture	81	9.9	7.7	5.0	16.0	13.8	6.2	19.8	17.7	4.9
Sepsis	22	22.7	29.1	*	31.8	36.7	*	36.4	43.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	21	0.0	1.8	*	0.0	4.0	*	4.8	6.3	*
Carotid Endarterectomy	16	0.0	1.2	*	0.0	2.1	*	0.0	3.0	*
Hip Replacement/Reconstruction	65	3.1	3.0	2.7	3.1	5.5	3.5	6.2	7.2	3.4
Open Reduction of Hip Fracture	43	11.6	6.1	*	23.3	11.7	*	23.3	15.5	*
Prostatectomy	106	2.8	0.8	1.3	4.7	2.1	2.0	6.6	3.5	2.9
Cholecystectomy	51	0.0	2.3	*	0.0	4.0	*	0.0	5.0	*
Hysterectomy	17	0.0	0.8	*	0.0	1.6	*	0.0	2.5	*

*The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,597	10.0	9.3	0.7	15.8	14.1	1.1	19.2	17.9	1.0
CONDITIONS:										
Acute Myocardial Infarction	113	27.4	28.8	4.4	34.5	32.3	4.7	38.1	35.9	5.4
Congestive Heart Failure	146	21.9	15.7	4.3	35.6	23.4	6.2	41.1	30.0	5.7
Pneumonia/Influenza	152	15.8	15.2	3.6	23.0	20.6	6.0	28.3	25.0	5.6
Chronic Obstructive Pulmonary Disease	34	23.5	10.4	*	35.3	17.3	*	35.3	22.5	*
Transient Cerebral Ischemia	19	0.0	2.0	*	0.0	4.2	*	5.3	6.6	*
Stroke	97	22.7	21.1	4.8	32.0	28.2	6.4	37.1	32.9	9.8
Hip Fracture	117	4.3	6.7	3.3	9.4	12.4	4.9	11.1	16.3	6.0
Sepsis	12	16.7	26.7	*	25.0	35.4	*	25.0	41.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	29	3.4	3.3	*	17.2	6.3	*	17.2	9.1	*
Carotid Endarterectomy	1	0.0	0.9	*	0.0	1.6	*	0.0	2.3	*
Hip Replacement/Reconstruction	60	3.3	3.4	2.4	6.7	6.6	3.3	6.7	8.9	4.1
Open Reduction of Hip Fracture	75	4.0	6.1	3.3	9.3	11.8	4.4	12.0	15.7	5.4
Prostatectomy	119	0.0	1.0	1.2	0.8	2.5	1.7	0.8	4.2	2.9
Cholecystectomy	58	8.6	3.0	4.0	8.6	5.4	3.5	8.6	7.0	3.6
Hysterectomy	21	0.0	0.5	*	0.0	1.0	*	0.0	1.5	*

*The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

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reid memorial hospital

Medicare Provider Number: 150048

January 11, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6235 Security Boulevard
Baltimore, Maryland 21207

Dear Mrs. Kappert:

The release of Medicare mortality rates by the Health Care Financing Administration serves to focus public attention on the quality of care received by patients in hospitals. Reid Memorial Hospital welcomes that discussion as an opportunity to inform the public of the many quality assessments that are a regular part of patient care at our institution.

The HCFA mortality figures are a statistical correlation of data taken from Medicare billing statements and Social Security death records. They are not an analysis of patients' medical records and they are not a measure of quality.

At first glance, the rates provided for our institution could raise questions. However, after a review of the records, we find that these rates identify differences in mortality rates in hospital populations, but the rates do not explain why the differences occur. When those cases where death occurred (at 30, 90, 180 days post admission), but was in no way related to the condition or procedure to which the rates attribute it are removed our rates are well within predicted rates.

This review and the results again emphasize the need to keep these mortality rates in perspective. These rates can help us focus on our quality review activities and call attention to unusual patterns, but without a review of medical records and the treatment provided to patients, it is not possible to use them to draw valid conclusions.

Reid Memorial has for many years participated in peer review, utilization review, quality assurance and risk management. Our institution is licensed, surveyed and accredited by various regulatory agencies such as the Indiana State Board of Health, the Joint Commission on Accreditation of Healthcare Organizations, the federal government and insurance companies.

Dodie Preston RN

Dodie Preston, R.N.
Administrative Assistant

1401 chester boulevard • richmond, indiana 47374 • phone 317 / 983-3000

RICHMOND STATE HOSPITAL

498 North West 18th Street
Richmond, IN 47374

Medicare Provider Number: 150135

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	23	0.0	7.6	*	0.0	11.9	*	4.3	14.5	*
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	1	0.0	7.2	*	0.0	11.8	*	0.0	16.3	*
Pneumonia/Influenza	3	0.0	15.0	*	0.0	22.2	*	33.3	27.2	*
Chronic Obstructive Pulmonary Disease	1	0.0	3.2	*	0.0	5.9	*	0.0	8.5	*
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	472
Occupancy Rate	80
Ownership/Control	State Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	11
Percent of Physicians Board Certified Specialists	9
Medical Residents/Interns	0
Registered Nurses	55
Licensed Practical Nurses	17

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

RICHMOND STATE HOSPITAL

Medicare Provider Number: 150135

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	17	0.0	2.3	*	0.0	4.1	*	0.0	5.8	*
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	2	0.0	9.8	*	0.0	14.6	*	0.0	18.5	*
Chronic Obstructive Pulmonary Disease	1	0.0	3.4	*	0.0	6.6	*	0.0	9.7	*
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	26	0.0	4.8	*	0.0	7.5	*	0.0	9.5	*
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	3	0.0	11.3	*	0.0	15.7	*	0.0	19.5	*
Chronic Obstructive Pulmonary Disease	1	0.0	6.9	*	0.0	10.8	*	0.0	13.9	*
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

RIVERVIEW HOSPITAL

395 Westfield Rd
Noblesville, IN 46060

Medicare Provider Number: 150059

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,119	8.6	8.2	0.9	13.0	12.7	1.5	15.8	16.3	1.2
CONDITIONS:										
Acute Myocardial Infarction	28	28.6	23.2	*	32.1	27.0	*	39.3	30.6	*
Congestive Heart Failure	59	20.3	15.2	8.1	28.8	23.5	9.6	35.6	30.3	10.8
Pneumonia/Influenza	69	14.5	13.7	4.2	18.8	19.2	5.9	20.3	23.6	6.5
Chronic Obstructive Pulmonary Disease	17	0.0	9.0	*	11.8	16.0	*	17.6	21.2	*
Transient Cerebral Ischemia	9	0.0	1.8	*	0.0	4.2	*	0.0	6.9	*
Stroke	40	27.5	21.5	*	32.5	28.9	*	35.0	33.7	*
Hip Fracture	24	0.0	5.8	*	8.3	10.5	*	8.3	14.0	*
Sepsis	13	7.7	35.8	*	23.1	43.6	*	23.1	50.7	*
PROCEDURES:										
Angioplasty	1	100.0	9.4	*	100.0	16.8	*	100.0	21.3	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	14	7.1	5.0	*	7.1	9.0	*	7.1	12.3	*
Carotid Endarterectomy	4	0.0	1.7	*	0.0	3.2	*	0.0	4.8	*
Hip Replacement/Reconstruction	13	0.0	7.2	*	23.1	11.7	*	23.1	15.3	*
Open Reduction of Hip Fracture	14	0.0	5.4	*	0.0	10.1	*	0.0	13.4	*
Prostatectomy	24	0.0	2.4	*	0.0	3.9	*	4.2	5.7	*
Cholecystectomy	32	6.3	3.1	*	9.4	5.9	*	9.4	8.1	*
Hysterectomy	7	0.0	0.4	*	0.0	0.8	*	0.0	1.3	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	122
Occupancy Rate	60
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	90
Percent of Physicians Board Certified Specialists	89
Medical Residents/Interns	0
Registered Nurses	150
Licensed Practical Nurses	15

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

RIVERVIEW HOSPITAL

Medicare Provider Number: 150059

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,047	8.5	8.1	1.4	13.6	12.5	1.8	17.6	16.1	2.4
CONDITIONS:										
Acute Myocardial Infarction	21	33.3	23.2	*	42.9	26.7	*	42.9	30.3	*
Congestive Heart Failure	42	23.8	16.0	*	38.1	24.0	*	50.0	30.8	*
Pneumonia/Influenza	51	17.6	17.6	6.0	23.5	24.0	6.6	33.3	28.9	6.8
Chronic Obstructive Pulmonary Disease	15	0.0	5.9	*	6.7	10.9	*	6.7	15.2	*
Transient Cerebral Ischemia	22	0.0	2.1	*	0.0	4.7	*	9.1	7.5	*
Stroke	34	11.8	20.7	*	26.5	27.8	*	29.4	32.7	*
Hip Fracture	31	0.0	7.3	*	6.5	13.1	*	9.7	16.7	*
Sepsis	7	0.0	28.4	*	14.3	33.7	*	14.3	40.1	*
PROCEDURES:										
Angioplasty	1	0.0	1.2	*	0.0	1.8	*	0.0	2.7	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	12	16.7	5.9	*	25.0	9.1	*	25.0	11.9	*
Carotid Endarterectomy	3	0.0	1.2	*	0.0	2.2	*	0.0	3.2	*
Hip Replacement/Reconstruction	9	0.0	4.4	*	11.1	8.4	*	22.2	11.1	*
Open Reduction of Hip Fracture	24	0.0	6.7	*	4.2	12.5	*	4.2	16.2	*
Prostatectomy	12	0.0	1.5	*	0.0	3.5	*	0.0	5.4	*
Cholecystectomy	20	5.0	1.7	*	5.0	3.1	*	5.0	4.2	*
Hysterectomy	5	0.0	0.1	*	0.0	0.2	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	992	9.2	8.8	1.0	13.3	13.4	1.1	16.6	17.1	1.3
CONDITIONS:										
Acute Myocardial Infarction	25	44.0	28.3	*	52.0	31.6	*	52.0	35.2	*
Congestive Heart Failure	48	12.5	17.3	*	22.9	26.5	*	29.2	34.0	*
Pneumonia/Influenza	39	10.3	15.2	*	20.5	20.8	*	23.1	25.3	*
Chronic Obstructive Pulmonary Disease	10	10.0	4.6	*	10.0	9.2	*	10.0	13.3	*
Transient Cerebral Ischemia	12	8.3	2.1	*	16.7	4.4	*	16.7	7.0	*
Stroke	32	31.3	21.9	*	31.3	29.3	*	37.5	34.5	*
Hip Fracture	29	10.3	7.4	*	13.8	13.3	*	20.7	17.2	*
Sepsis	10	30.0	32.6	*	30.0	39.2	*	30.0	45.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	6	16.7	3.2	*	16.7	7.0	*	16.7	10.8	*
Carotid Endarterectomy	4	0.0	1.6	*	0.0	3.3	*	25.0	4.7	*
Hip Replacement/Reconstruction	8	0.0	3.7	*	0.0	7.0	*	12.5	9.2	*
Open Reduction of Hip Fracture	20	10.0	6.7	*	15.0	12.5	*	25.0	16.4	*
Prostatectomy	16	0.0	0.7	*	0.0	1.7	*	6.3	2.9	*
Cholecystectomy	24	4.2	3.4	*	4.2	6.3	*	8.3	8.6	*
Hysterectomy	5	0.0	0.8	*	0.0	1.6	*	20.0	2.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

RUSH MEMORIAL HOSPITAL

1300 N Main St
Rushville, IN 46173

Medicare Provider Number: 150092

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	303	12.9	10.8	3.1	19.5	15.8	3.3	22.1	20.0	3.0
CONDITIONS:										
Acute Myocardial Infarction	8	25.0	28.3	*	25.0	31.2	*	25.0	34.9	*
Congestive Heart Failure	23	13.0	15.9	*	26.1	24.6	*	30.4	31.8	*
Pneumonia/Influenza	30	20.0	17.5	*	33.3	23.6	*	33.3	28.2	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	8	0.0	2.6	*	12.5	5.7	*	12.5	9.1	*
Stroke	9	22.2	19.3	*	33.3	24.6	*	44.4	28.9	*
Hip Fracture	3	0.0	6.6	*	0.0	11.6	*	0.0	14.8	*
Sepsis	2	50.0	35.1	*	50.0	44.1	*	50.0	50.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	2.9	*	0.0	5.6	*	0.0	7.6	*
Open Reduction of Hip Fracture	1	0.0	8.3	*	0.0	14.2	*	0.0	17.5	*
Prostatectomy	13	0.0	0.7	*	0.0	1.6	*	0.0	2.6	*
Cholecystectomy	9	11.1	1.8	*	11.1	2.9	*	11.1	3.6	*
Hysterectomy	3	0.0	0.3	*	0.0	0.6	*	0.0	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	52
Occupancy Rate	33
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	8
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	0
Registered Nurses	26
Licensed Practical Nurses	6

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

RUSH MEMORIAL HOSPITAL

Medicare Provider Number: 150092

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	330	12.1	11.3	2.1	17.9	16.5	2.4	22.4	20.8	2.7
CONDITIONS:										
Acute Myocardial Infarction	20	50.0	34.0	*	50.0	37.4	*	55.0	40.9	*
Congestive Heart Failure	31	22.6	18.5	*	38.7	27.6	*	45.2	34.9	*
Pneumonia/Influenza	29	13.8	19.4	*	24.1	25.7	*	27.6	30.7	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	7	0.0	2.1	*	0.0	4.7	*	0.0	7.4	*
Stroke	15	6.7	19.7	*	20.0	25.6	*	20.0	30.2	*
Hip Fracture	10	10.0	7.4	*	10.0	14.0	*	20.0	18.4	*
Sepsis	3	0.0	30.8	*	0.0	36.5	*	0.0	42.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	5.8	*	0.0	12.4	*	0.0	17.2	*
Open Reduction of Hip Fracture	8	12.5	5.7	*	12.5	11.6	*	25.0	15.8	*
Prostatectomy	11	0.0	2.9	*	0.0	5.7	*	0.0	7.5	*
Cholecystectomy	12	0.0	5.4	*	8.3	8.8	*	8.3	10.5	*
Hysterectomy	5	0.0	0.4	*	0.0	0.8	*	0.0	1.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	329	13.1	10.7	2.3	17.6	15.4	2.6	21.9	19.4	2.6
CONDITIONS:										
Acute Myocardial Infarction	15	33.3	30.9	*	40.0	34.5	*	46.7	38.4	*
Congestive Heart Failure	19	5.3	16.8	*	15.8	25.2	*	26.3	32.1	*
Pneumonia/Influenza	36	30.6	17.7	*	33.3	24.0	*	36.1	29.0	*
Chronic Obstructive Pulmonary Disease	2	50.0	6.8	*	50.0	11.8	*	100.0	17.2	*
Transient Cerebral Ischemia	6	16.7	1.5	*	16.7	3.0	*	16.7	4.7	*
Stroke	11	27.3	21.3	*	27.3	28.0	*	27.3	32.9	*
Hip Fracture	11	0.0	8.1	*	9.1	15.0	*	9.1	19.7	*
Sepsis	3	33.3	32.8	*	33.3	39.4	*	33.3	45.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	3.9	*	0.0	8.2	*	0.0	11.4	*
Open Reduction of Hip Fracture	8	0.0	5.3	*	12.5	10.3	*	12.5	13.8	*
Prostatectomy	12	0.0	1.7	*	0.0	4.2	*	0.0	6.8	*
Cholecystectomy	10	0.0	1.1	*	0.0	1.8	*	0.0	2.4	*
Hysterectomy	1	0.0	3.5	*	0.0	8.0	*	0.0	12.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

SCOTT COUNTY MEMORIAL HOSPITAL

RR1 Box 4456
Scottsburg, IN 47170

Medicare Provider Number: 150052

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	472	10.8	10.8	1.5	14.6	16.2	2.0	18.6	20.1	2.4
CONDITIONS:										
Acute Myocardial Infarction	15	46.7	30.2	*	46.7	34.4	*	46.7	38.0	*
Congestive Heart Failure	29	13.8	15.5	*	20.7	24.4	*	31.0	31.5	*
Pneumonia/Influenza	84	8.3	14.7	4.6	14.3	20.5	6.1	16.7	24.9	6.0
Chronic Obstructive Pulmonary Disease	5	20.0	4.0	*	20.0	7.4	*	20.0	10.4	*
Transient Cerebral Ischemia	8	12.5	2.5	*	12.5	5.7	*	12.5	9.2	*
Stroke	10	20.0	23.0	*	20.0	32.5	*	40.0	37.7	*
Hip Fracture	8	0.0	8.6	*	0.0	14.7	*	0.0	18.4	*
Sepsis	6	33.3	21.4	*	50.0	29.4	*	50.0	34.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	4.8	*	0.0	8.9	*	0.0	11.6	*
Open Reduction of Hip Fracture	2	0.0	8.1	*	0.0	14.8	*	0.0	19.0	*
Prostatectomy	7	0.0	1.0	*	14.3	2.5	*	14.3	4.1	*
Cholecystectomy	7	0.0	3.6	*	14.3	7.2	*	14.3	10.1	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1990

Total Beds	107
Ownership/Control	Local Government

STAFFING:

Medical Residents/Interns	0
Registered Nurses	16
Licensed Practical Nurses	20

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	Yes
Hospice	No
Intensive Care Unit	No
Organ Transplant	No
Rehabilitation	No
Shock Trauma	No

**** Not used in calculating hospital mortality rates.**

SCOTT COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 150052

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	516	13.0	9.9	2.1	15.9	15.3	1.6	18.8	19.3	1.8
CONDITIONS:										
Acute Myocardial Infarction	10	50.0	23.7	*	50.0	26.2	*	50.0	29.2	*
Congestive Heart Failure	31	41.9	16.4	*	48.4	26.1	*	54.8	33.7	*
Pneumonia/Influenza	78	19.2	17.0	4.7	21.8	23.2	5.5	25.6	27.9	6.8
Chronic Obstructive Pulmonary Disease	13	7.7	8.5	*	7.7	14.7	*	7.7	18.9	*
Transient Cerebral Ischemia	7	14.3	2.1	*	14.3	4.6	*	14.3	7.4	*
Stroke	18	22.2	18.2	*	22.2	26.1	*	38.9	30.8	*
Hip Fracture	11	9.1	6.9	*	9.1	12.0	*	9.1	15.2	*
Sepsis	4	25.0	30.3	*	25.0	37.7	*	25.0	43.4	*
PROCEDURE:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	7	14.3	6.6	*	14.3	12.1	*	14.3	15.4	*
Open Reduction of Hip Fracture	2	0.0	3.2	*	0.0	6.7	*	0.0	9.6	*
Prostatectomy	8	0.0	0.6	*	0.0	1.3	*	0.0	2.1	*
Cholecystectomy	9	0.0	0.7	*	0.0	1.2	*	0.0	1.7	*
Hysterectomy	0									

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	497	10.7	8.4	2.7	15.3	13.2	2.8	17.7	16.8	2.6
CONDITIONS:										
Acute Myocardial Infarction	10	40.0	25.5	*	50.0	30.4	*	50.0	33.9	*
Congestive Heart Failure	36	19.4	13.9	*	33.3	22.8	*	36.1	29.9	*
Pneumonia/Influenza	91	16.5	14.7	6.8	24.2	20.7	7.4	27.5	25.6	7.1
Chronic Obstructive Pulmonary Disease	10	10.0	6.9	*	10.0	13.3	*	10.0	18.4	*
Transient Cerebral Ischemia	5	0.0	0.9	*	0.0	2.0	*	0.0	3.2	*
Stroke	22	22.7	16.9	*	36.4	24.2	*	36.4	28.8	*
Hip Fracture	2	0.0	2.2	*	0.0	4.7	*	0.0	6.9	*
Sepsis	3	0.0	12.7	*	0.0	20.0	*	0.0	24.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	2.1	*	0.0	4.5	*	0.0	6.6	*
Open Reduction of Hip Fracture	1	0.0	1.9	*	0.0	4.2	*	0.0	6.3	*
Prostatectomy	7	0.0	1.0	*	0.0	2.5	*	0.0	4.4	*
Cholecystectomy	6	0.0	1.2	*	0.0	2.3	*	0.0	3.2	*
Hysterectomy	0									

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

ST ANTHONY HOSPITAL

310 W Homer St
Michigan City, IN 46360

Medicare Provider Number: 150015

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	1,528	9.5	8.2	1.0	15.3	12.6	1.7	18.5	16.2	1.5
CONDITIONS:										
Acute Myocardial Infarction	48	27.1	26.2	*	31.3	30.1	*	31.3	33.8	*
Congestive Heart Failure	84	14.3	12.9	4.2	25.0	20.4	6.6	28.6	26.7	6.4
Pneumonia/Influenza	70	18.6	15.8	6.0	24.3	21.7	5.7	28.6	26.2	5.7
Chronic Obstructive Pulmonary Disease	31	9.7	5.9	*	12.9	10.8	*	22.6	15.2	*
Transient Cerebral Ischemia	21	4.8	2.4	*	14.3	5.3	*	14.3	8.4	*
Stroke	50	14.0	16.8	*	20.0	22.8	*	24.0	26.9	*
Hip Fracture	45	6.7	5.6	*	13.3	10.6	*	15.6	14.4	*
Sepsis	19	21.1	26.4	*	31.6	32.6	*	42.1	38.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	25.0	3.8	*	25.0	8.3	*	25.0	12.8	*
Carotid Endarterectomy	3	0.0	1.2	*	0.0	2.5	*	0.0	4.0	*
Hip Replacement/Reconstruction	42	4.8	2.5	*	4.8	5.1	*	4.8	7.5	*
Open Reduction of Hip Fracture	18	5.6	5.6	*	16.7	10.8	*	16.7	14.6	*
Prostatectomy	43	0.0	1.0	*	0.0	2.6	*	0.0	4.3	*
Cholecystectomy	37	8.1	3.2	*	10.8	5.7	*	10.8	7.5	*
Hysterectomy	8	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	156
Occupancy Rate	72
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	82
Percent of Physicians Board Certified Specialists	79
Medical Residents/Interns	0
Registered Nurses	97
Licensed Practical Nurses	15

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

ST ANTHONY HOSPITAL

Medicare Provider Number: 150015

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,471	11.0	9.2	1.4	15.9	13.8	1.7	19.4	17.6	1.7
CONDITIONS:										
Acute Myocardial Infarction	45	33.3	26.0	*	35.6	28.9	*	37.8	32.2	*
Congestive Heart Failure	83	10.8	14.7	4.7	26.5	22.8	5.1	31.3	29.4	5.9
Pneumonia/Influenza	66	19.7	14.7	9.5	25.8	20.1	10.6	30.3	24.5	10.9
Chronic Obstructive Pulmonary Disease	21	14.3	6.7	*	19.0	12.3	*	23.8	17.1	*
Transient Cerebral Ischemia	30	6.7	1.9	*	10.0	4.2	*	13.3	6.6	*
Stroke	43	20.9	22.8	*	20.9	29.3	*	27.9	34.2	*
Hip Fracture	34	14.7	6.0	*	17.6	11.0	*	17.6	14.3	*
Sepsis	24	25.0	28.6	*	41.7	35.9	*	45.8	42.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	5	20.0	4.3	*	40.0	8.0	*	40.0	11.3	*
Carotid Endarterectomy	2	0.0	1.0	*	0.0	1.9	*	0.0	2.8	*
Hip Replacement/Reconstruction	14	7.1	2.6	*	7.1	4.9	*	7.1	6.4	*
Open Reduction of Hip Fracture	9	0.0	5.4	*	0.0	10.3	*	0.0	13.8	*
Prostatectomy	46	2.2	1.3	*	4.3	2.8	*	6.5	4.2	*
Cholecystectomy	30	0.0	3.3	*	10.0	5.1	*	13.3	6.5	*
Hysterectomy	12	0.0	0.4	*	0.0	0.9	*	8.3	1.3	*

*The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,342	8.9	8.4	0.8	14.8	12.6	1.2	18.4	16.1	1.3
CONDITIONS:										
Acute Myocardial Infarction	44	27.3	26.6	*	27.3	29.8	*	27.3	33.7	*
Congestive Heart Failure	80	11.2	15.4	7.3	20.0	23.4	7.5	28.7	30.2	6.5
Pneumonia/Influenza	51	23.5	17.8	9.6	31.4	23.8	11.1	35.3	28.7	12.3
Chronic Obstructive Pulmonary Disease	17	5.9	5.5	*	11.8	10.2	*	11.8	14.4	*
Transient Cerebral Ischemia	35	0.0	1.8	*	2.9	3.9	*	5.7	6.2	*
Stroke	47	17.0	17.0	*	25.5	22.7	*	29.8	27.0	*
Hip Fracture	24	4.2	5.5	*	8.3	10.1	*	16.7	13.4	*
Sepsis	27	22.2	32.3	*	37.0	39.3	*	44.4	45.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	5	0.0	6.0	*	0.0	11.0	*	0.0	15.3	*
Carotid Endarterectomy	2	0.0	1.8	*	0.0	3.0	*	0.0	4.3	*
Hip Replacement/Reconstruction	10	0.0	1.7	*	0.0	3.4	*	10.0	4.8	*
Open Reduction of Hip Fracture	7	0.0	7.4	*	14.3	14.2	*	28.6	18.9	*
Prostatectomy	42	2.4	1.5	*	4.8	3.6	*	7.1	5.9	*
Cholecystectomy	36	5.6	3.0	*	8.3	4.8	*	8.3	6.0	*
Hysterectomy	12	0.0	0.4	*	0.0	0.7	*	0.0	1.1	*

*The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

ST ANTHONY MEDICAL CENTER INC

Main and Franciscan Rd
Crown Point, IN 46307

Medicare Provider Number: 150126

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,903	7.8	7.9	0.6	12.1	11.9	0.8	15.2	15.2	0.9
CONDITIONS:										
Acute Myocardial Infarction	41	24.4	24.9	*	26.8	27.7	*	29.3	30.8	*
Congestive Heart Failure	99	11.1	14.2	4.7	18.2	21.7	6.1	22.2	28.2	8.9
Pneumonia/Influenza	47	12.8	17.1	*	25.5	23.6	*	40.4	28.7	*
Chronic Obstructive Pulmonary Disease	30	6.7	10.9	*	10.0	17.1	*	10.0	22.1	*
Transient Cerebral Ischemia	43	2.3	2.1	*	2.3	4.5	*	2.3	7.2	*
Stroke	62	14.5	20.4	6.1	24.2	26.8	6.3	32.3	31.2	6.0
Hip Fracture	40	2.5	7.6	*	5.0	13.3	*	7.5	16.9	*
Sepsis	15	40.0	22.6	*	40.0	29.8	*	53.3	36.0	*
PROCEDURES:										
Angioplasty	30	0.0	3.3	*	0.0	4.1	*	0.0	5.0	*
Coronary Artery Bypass Graft	69	4.3	4.8	3.0	5.8	6.7	3.3	10.1	7.9	4.0
Initial Pacemaker Insertion	16	12.5	2.7	*	12.5	5.1	*	12.5	7.5	*
Carotid Endarterectomy	20	0.0	1.3	*	0.0	2.4	*	5.0	3.5	*
Hip Replacement/Reconstruction	45	0.0	3.3	*	2.2	6.2	*	2.2	8.1	*
Open Reduction of Hip Fracture	17	0.0	6.6	*	0.0	12.0	*	5.9	15.3	*
Prostatectomy	110	0.9	1.2	1.2	1.8	2.5	2.1	2.7	3.9	3.0
Cholecystectomy	46	2.2	3.2	*	4.3	5.7	*	6.5	7.5	*
Hysterectomy	13	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	330
Occupancy Rate	46
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	217
Percent of Physicians Board Certified Specialists	59
Medical Residents/Interns	0
Registered Nurses	250
Licensed Practical Nurses	15

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	Yes

** **Not used in calculating hospital mortality rates.**

ST ANTHONY MEDICAL CENTER INC

Medicare Provider Number: 150126

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,800	9.2	8.6	0.7	14.1	13.1	1.2	17.4	16.5	1.2
CONDITIONS:										
Acute Myocardial Infarction	30	26.7	24.5	*	40.0	27.3	*	40.0	30.3	*
Congestive Heart Failure	94	7.4	14.4	4.5	20.2	22.0	4.4	30.9	28.4	4.8
Pneumonia/Influenza	59	22.0	17.8	5.9	30.5	23.8	7.6	33.9	28.5	8.2
Chronic Obstructive Pulmonary Disease	27	7.4	10.4	*	11.1	17.2	*	11.1	22.5	*
Transient Cerebral Ischemia	39	5.1	1.9	*	7.7	3.9	*	10.3	5.9	*
Stroke	57	22.8	18.2	5.4	22.8	25.0	6.1	26.3	29.4	6.2
Hip Fracture	43	4.7	8.4	*	11.6	15.0	*	23.3	19.2	*
Sepsis	10	20.0	22.7	*	30.0	33.5	*	30.0	41.2	*
PROCEDURES:										
Angioplasty	38	2.6	2.8	*	7.9	3.8	*	7.9	4.9	*
Coronary Artery Bypass Graft	101	9.9	6.4	4.4	13.9	8.5	5.7	15.8	9.8	6.2
Initial Pacemaker Insertion	11	0.0	3.3	*	0.0	6.5	*	0.0	9.8	*
Carotid Endarterectomy	16	0.0	1.3	*	6.3	2.3	*	6.3	3.3	*
Hip Replacement/Reconstruction	48	4.2	3.5	*	6.3	6.4	*	6.3	8.1	*
Open Reduction of Hip Fracture	22	0.0	7.6	*	9.1	14.7	*	31.8	19.4	*
Prostatectomy	91	1.1	1.0	1.4	3.3	2.5	1.7	3.3	4.1	2.4
Cholecystectomy	21	0.0	2.4	*	0.0	4.0	*	4.8	5.1	*
Hysterectomy	11	0.0	1.5	*	0.0	3.1	*	0.0	4.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,810	8.6	8.6	0.7	14.2	13.0	1.1	17.3	16.5	1.2
CONDITIONS:										
Acute Myocardial Infarction	48	31.3	28.5	*	35.4	31.6	*	35.4	34.9	*
Congestive Heart Failure	83	22.9	16.4	8.1	32.5	24.7	8.8	38.6	31.6	9.7
Pneumonia/Influenza	48	18.8	16.2	*	25.0	22.1	*	29.2	26.9	*
Chronic Obstructive Pulmonary Disease	30	10.0	12.3	*	10.0	19.3	*	20.0	24.6	*
Transient Cerebral Ischemia	33	0.0	1.8	*	0.0	3.8	*	6.1	5.8	*
Stroke	58	17.2	23.2	9.1	25.9	29.2	7.5	29.3	33.7	7.1
Hip Fracture	45	13.3	6.8	*	20.0	11.9	*	24.4	15.3	*
Sepsis	20	10.0	26.6	*	25.0	37.1	*	35.0	44.3	*
PROCEDURES:										
Angioplasty	58	5.2	3.7	2.9	6.9	4.7	4.1	8.6	5.8	4.9
Coronary Artery Bypass Graft	112	15.2	5.9	4.3	17.9	8.0	4.9	18.8	9.3	4.4
Initial Pacemaker Insertion	17	5.9	3.2	*	5.9	6.5	*	5.9	9.8	*
Carotid Endarterectomy	23	0.0	1.5	*	4.3	2.8	*	4.3	4.0	*
Hip Replacement/Reconstruction	39	2.6	2.3	*	10.3	4.5	*	10.3	6.2	*
Open Reduction of Hip Fracture	28	14.3	6.4	*	14.3	11.8	*	21.4	15.2	*
Prostatectomy	56	0.0	1.2	2.4	3.6	3.1	2.9	7.1	5.2	3.9
Cholecystectomy	29	0.0	2.6	*	6.9	4.3	*	10.3	5.5	*
Hysterectomy	8	0.0	0.4	*	0.0	0.8	*	0.0	1.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

ST CATHERINE HOSPITAL

4321 Fir St
East Chicago, IN 46312

Medicare Provider Number: 150008

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,685	7.8	9.1	0.8	12.8	13.8	0.9	15.8	17.5	1.1
CONDITIONS:										
Acute Myocardial Infarction	35	34.3	27.7	*	37.1	30.4	*	40.0	33.7	*
Congestive Heart Failure	95	10.5	14.3	4.6	21.1	22.2	4.5	31.6	28.9	6.8
Pneumonia/Influenza	54	16.7	16.5	5.1	27.8	21.7	6.4	27.8	26.0	7.7
Chronic Obstructive Pulmonary Disease	17	11.8	15.4	*	11.8	24.4	*	11.8	30.9	*
Transient Cerebral Ischemia	31	3.2	1.7	*	6.5	3.6	*	12.9	5.7	*
Stroke	61	16.4	19.1	5.5	18.0	24.3	7.3	19.7	28.5	8.6
Hip Fracture	21	4.8	7.2	*	4.8	12.8	*	14.3	16.4	*
Sepsis	21	38.1	31.8	*	52.4	38.7	*	52.4	44.2	*
PROCEDURES:										
Angioplasty	19	5.3	4.0	*	5.3	5.1	*	5.3	6.3	*
Coronary Artery Bypass Graft	34	14.7	6.5	*	17.6	8.8	*	17.6	10.3	*
Initial Pacemaker Insertion	11	0.0	8.0	*	9.1	12.4	*	9.1	15.6	*
Carotid Endarterectomy	3	0.0	1.2	*	0.0	2.0	*	0.0	3.0	*
Hip Replacement/Reconstruction	17	0.0	1.6	*	0.0	2.9	*	0.0	4.1	*
Open Reduction of Hip Fracture	9	0.0	8.6	*	0.0	15.6	*	11.1	20.0	*
Prostatectomy	47	2.1	1.8	*	2.1	3.8	*	4.3	6.0	*
Cholecystectomy	30	0.0	4.0	*	3.3	7.1	*	3.3	9.3	*
Hysterectomy	8	0.0	0.7	*	0.0	1.3	*	0.0	2.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1990

Total Beds	290
Ownership/Control	Church

STAFFING:

Medical Residents/Interns	0
Registered Nurses	226
Licensed Practical Nurses	0

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	Yes
Hospice	No
Intensive Care Unit	Yes
Organ Transplant	No
Rehabilitation	Yes
Shock Trauma	Yes

**** Not used in calculating hospital mortality rates.**

ST CATHERINE HOSPITAL

Medicare Provider Number: 150008

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,628	8.0	9.5	1.0	13.3	14.0	0.9	17.1	17.5	1.0
CONDITIONS:										
Acute Myocardial Infarction	38	47.4	32.0	*	50.0	35.5	*	55.3	39.4	*
Congestive Heart Failure	82	9.8	16.2	6.7	18.3	24.8	8.3	23.2	31.7	10.3
Pneumonia/Influenza	63	12.7	16.5	6.5	20.6	22.3	5.8	27.0	26.8	5.6
Chronic Obstructive Pulmonary Disease	12	25.0	14.7	*	41.7	23.5	*	41.7	30.2	*
Transient Cerebral Ischemia	27	0.0	2.0	*	3.7	4.1	*	3.7	6.3	*
Stroke	73	21.9	22.4	4.9	31.5	28.2	5.9	35.6	32.7	6.6
Hip Fracture	19	15.8	7.2	*	21.1	12.8	*	21.1	16.3	*
Sepsis	15	13.3	29.6	*	20.0	35.1	*	26.7	40.6	*
PROCEDURE:										
Angioplasty	19	5.3	2.9	*	5.3	3.8	*	5.3	4.8	*
Coronary Artery Bypass Graft	27	18.5	9.1	*	22.2	11.6	*	29.6	13.1	*
Initial Pacemaker Insertion	6	16.7	8.7	*	16.7	11.7	*	16.7	14.5	*
Carotid Endarterectomy	8	0.0	1.6	*	0.0	3.3	*	0.0	5.1	*
Hip Replacement/Reconstruction	17	5.9	2.6	*	11.8	4.7	*	11.8	6.3	*
Open Reduction of Hip Fracture	8	25.0	6.8	*	25.0	13.0	*	25.0	17.0	*
Prostatectomy	43	0.0	1.5	*	2.3	3.6	*	4.7	5.8	*
Cholecystectomy	29	0.0	3.6	*	0.0	6.8	*	6.9	9.0	*
Hysterectomy	13	0.0	1.2	*	7.7	2.2	*	7.7	3.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,662	7.9	9.2	0.9	12.6	13.8	0.9	16.8	17.4	0.9
CONDITIONS:										
Acute Myocardial Infarction	40	22.5	30.0	*	27.5	33.1	*	35.0	36.6	*
Congestive Heart Failure	98	14.3	15.7	5.8	23.5	23.7	4.7	29.6	30.5	4.7
Pneumonia/Influenza	45	24.4	18.6	*	24.4	25.0	*	33.3	29.9	*
Chronic Obstructive Pulmonary Disease	22	4.5	16.9	*	22.7	26.4	*	22.7	32.9	*
Transient Cerebral Ischemia	51	0.0	1.8	2.6	0.0	3.8	4.5	3.9	5.9	3.7
Stroke	66	21.2	22.8	5.4	34.8	29.1	6.9	39.4	33.9	7.6
Hip Fracture	24	8.3	6.1	*	12.5	10.9	*	12.5	14.1	*
Sepsis	6	33.3	32.4	*	66.7	40.4	*	66.7	46.2	*
PROCEDURES:										
Angioplasty	11	0.0	5.0	*	0.0	6.4	*	0.0	7.8	*
Coronary Artery Bypass Graft	29	20.7	9.9	*	24.1	12.8	*	27.6	14.1	*
Initial Pacemaker Insertion	10	0.0	2.1	*	0.0	4.2	*	0.0	6.4	*
Carotid Endarterectomy	5	0.0	1.2	*	0.0	2.3	*	0.0	3.3	*
Hip Replacement/Reconstruction	19	0.0	1.6	*	5.3	3.2	*	5.3	4.6	*
Open Reduction of Hip Fracture	8	0.0	7.3	*	12.5	13.5	*	12.5	17.6	*
Prostatectomy	38	0.0	1.4	*	0.0	3.3	*	2.6	5.5	*
Cholecystectomy	35	2.9	2.4	*	2.9	4.2	*	2.9	5.6	*
Hysterectomy	13	0.0	0.7	*	0.0	1.4	*	0.0	2.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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4321 Fir Street
East Chicago, IN 46312
(219) 392-1700

St. Catherine Hospital

January 15, 1991

Ms. Gail R. Wilensky, Ph.D.
Administrator
Health Care Financing Administration
Department of Health and Human Services
6325 Security Boulevard
Baltimore, MD 21207

Dear Ms. Wilensky:

We would like to thank the Health Care Financing Administration for the opportunity to review and respond to the 1989 Medicare patients' mortality data. The hospital acknowledges and supports the Health Care Financing Administration, as well as other reputable and qualified organizations and agencies such as the American Hospital Association and the Joint Commission on Healthcare Organizations, in their effort to promote consumer awareness and understanding of quality healthcare indicators.

Representative of our commitment to quality healthcare, St. Catherine Hospital employs its comprehensive Quality Assurance Program to ensure the continuous evaluation of patient care. Our medical staff's peer review of patient mortality data is one component of the program. Because we recognize that mortality rates, by themselves, are not a complete measure of quality care, we analyze data on all patients, in all circumstances. We believe our program accounts for the unique characteristics of our patients, our hospital, and our community. We consider the information generated by the Health Care Financing Administration a tool in evaluating quality care.

We recognize that, in an attempt to provide a more valid measure of quality care, HCFA has adjusted the model from previous years. However, we feel compelled to note that a great deal of the information we reviewed for our hospitals was statistically insignificant, by HCFA's own definition. We believe this may lead to widespread misunderstanding of the data when it is released to the public. Most healthcare consumers will not have the benefit of a detailed explanation of the HCFA's statistical model. We support further progress in the area of increased validity, but we ask that HCFA give careful consideration to the fact that misleading interpretations are likely to result from such complexities in the model.

Sincerely,

John R. Birdzell
President

Affiliate of ANCILLA SYSTEMS

ST ELIZABETH HOSPITAL MEDICAL CENTER

1501 Hartford Street
Lafayette, IN 47904

Medicare Provider Number: 150003

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	2,264	11.7	9.2	0.8	17.4	14.0	1.0	20.8	17.7	1.1
CONDITIONS:										
Acute Myocardial Infarction	89	33.7	25.2	7.2	38.2	28.3	7.7	38.2	31.7	8.3
Congestive Heart Failure	108	14.8	13.5	3.7	23.1	21.2	5.0	31.5	27.8	7.7
Pneumonia/Influenza	109	16.5	15.5	4.8	24.8	21.6	6.6	29.4	26.5	6.6
Chronic Obstructive Pulmonary Disease	27	14.8	5.7	*	18.5	10.2	*	29.6	14.2	*
Transient Cerebral Ischemia	18	5.6	1.9	*	11.1	4.3	*	16.7	6.7	*
Stroke	89	22.5	21.0	5.4	25.8	27.2	6.0	32.6	31.7	6.7
Hip Fracture	81	9.9	5.3	4.5	14.8	9.9	5.5	16.0	13.1	5.7
Sepsis	30	20.0	25.9	*	30.0	33.9	*	30.0	40.3	*
PROCEDURES:										
Angioplasty	48	6.3	2.3	*	6.3	2.9	*	6.3	3.9	*
Coronary Artery Bypass Graft	74	13.5	4.7	4.5	16.2	6.7	5.0	17.6	8.0	5.3
Initial Pacemaker Insertion	27	3.7	2.8	*	7.4	5.7	*	11.1	8.5	*
Carotid Endarterectomy	8	0.0	1.0	*	0.0	1.8	*	0.0	2.6	*
Hip Replacement/Reconstruction	30	10.0	3.5	*	13.3	7.1	*	16.7	9.9	*
Open Reduction of Hip Fracture	29	6.9	4.8	*	13.8	9.5	*	17.2	13.0	*
Prostatectomy	87	1.1	1.3	1.8	3.4	2.5	2.7	5.7	4.0	3.9
Cholecystectomy	52	5.8	2.2	3.1	5.8	4.1	3.3	5.8	5.5	3.7
Hysterectomy	11	0.0	0.9	*	0.0	2.0	*	0.0	3.0	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	242
Occupancy Rate	59
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	178
Percent of Physicians Board Certified Specialists	80
Medical Residents/Interns	0
Registered Nurses	242
Licensed Practical Nurses	47

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

ST ELIZABETH HOSPITAL MEDICAL CENTER

Medicare Provider Number: 150003

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,218	10.5	8.8	0.9	15.8	13.5	1.0	19.5	17.2	1.1
CONDITIONS:										
Acute Myocardial Infarction	77	28.6	26.5	5.8	32.5	29.9	6.1	35.1	33.5	5.6
Congestive Heart Failure	98	18.4	13.5	6.9	27.6	20.9	7.6	33.7	27.1	8.9
Pneumonia/Influenza	115	13.9	14.0	3.3	23.5	19.3	4.7	28.7	23.7	5.3
Chronic Obstructive Pulmonary Disease	35	2.9	4.4	*	11.4	8.5	*	17.1	12.2	*
Transient Cerebral Ischemia	21	0.0	1.8	*	4.8	4.1	*	9.5	6.4	*
Stroke	66	31.8	21.7	6.8	34.8	28.0	6.7	34.8	32.8	8.3
Hip Fracture	67	7.5	5.2	4.0	13.4	9.6	6.7	17.9	12.5	7.7
Sepsis	30	33.3	28.4	*	46.7	36.7	*	50.0	43.1	*
PROCEDURES:										
Angioplasty	46	2.2	2.7	*	2.2	3.3	*	2.2	4.2	*
Coronary Artery Bypass Graft	61	4.9	5.4	2.9	8.2	7.6	3.7	8.2	8.9	3.8
Initial Pacemaker Insertion	9	0.0	2.5	*	0.0	4.7	*	0.0	6.8	*
Carotid Endarterectomy	9	0.0	1.1	*	0.0	2.0	*	0.0	2.8	*
Hip Replacement/Reconstruction	46	2.2	2.4	*	8.7	4.5	*	10.9	6.1	*
Open Reduction of Hip Fracture	26	11.5	4.0	*	15.4	8.0	*	15.4	10.8	*
Prostatectomy	90	1.1	0.9	1.8	4.4	2.3	2.4	7.8	4.1	2.9
Cholecystectomy	59	3.4	2.0	2.5	5.1	3.8	2.8	6.8	5.1	3.3
Hysterectomy	6	0.0	0.3	*	0.0	0.5	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,323	10.3	8.6	0.8	15.6	13.3	1.0	19.1	17.0	1.0
CONDITIONS:										
Acute Myocardial Infarction	80	21.2	26.0	9.1	25.0	29.2	10.0	27.5	32.7	10.2
Congestive Heart Failure	109	18.3	14.6	5.1	26.6	22.6	5.0	31.2	29.4	5.6
Pneumonia/Influenza	75	21.3	15.7	7.7	30.7	21.5	9.3	36.0	26.3	9.7
Chronic Obstructive Pulmonary Disease	48	10.4	5.8	*	22.9	10.5	*	25.0	14.6	*
Transient Cerebral Ischemia	20	0.0	1.6	*	0.0	3.3	*	5.0	5.1	*
Stroke	75	29.3	21.2	9.8	38.7	27.4	11.4	41.3	32.0	11.0
Hip Fracture	76	5.3	5.4	2.7	9.2	9.9	4.7	14.5	12.9	4.4
Sepsis	28	32.1	27.6	*	35.7	36.1	*	39.3	42.9	*
PROCEDURES:										
Angioplasty	12	0.0	2.7	*	0.0	3.4	*	0.0	4.4	*
Coronary Artery Bypass Graft	26	11.5	4.6	*	15.4	6.5	*	19.2	7.5	*
Initial Pacemaker Insertion	23	4.3	3.0	*	8.7	6.1	*	8.7	9.0	*
Carotid Endarterectomy	10	0.0	1.3	*	0.0	2.6	*	0.0	3.8	*
Hip Replacement/Reconstruction	38	0.0	3.7	*	5.3	6.7	*	7.9	8.6	*
Open Reduction of Hip Fracture	22	0.0	4.0	*	0.0	7.7	*	4.5	10.3	*
Prostatectomy	82	2.4	0.5	1.4	2.4	1.3	2.5	6.1	2.2	3.1
Cholecystectomy	49	10.2	2.4	*	10.2	4.5	*	10.2	5.9	*
Hysterectomy	19	0.0	1.5	*	5.3	3.4	*	5.3	5.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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StE *Our business is life*

Medicare Provider #15-0003

December 31, 1990

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, MD 21207

To Whom it May Concern:

Development of the statistical confidence intervals for the point estimates provided by HCFA is most helpful in understanding this data. For St. Elizabeth Hospital Medical Center, this exercise leads to useful insights.

First, for every condition and procedure itemized, the difference between the predicted rate and the rate actually observed is 95% likely to be the result of random variation or chance. Put another way, the mortality rates predicted at St. Elizabeth Hospital for specific conditions and procedures all fall within the range of mortality one would expect with a 95% confidence level.

None of the individual diagnoses and procedures analyzed by HCFA are specific to cancer, yet deaths from all causes will of course include cancer deaths. Since St. Elizabeth Hospital is a regional referral center for cancer treatment, we would expect to have a disproportionate share of the cancer patients and therefore more deaths from "all causes" than might be predicted assuming cancer patients were evenly distributed between community hospitals.

This hospital has the only Radiation Oncology facility between Indianapolis and Lake County. Our cancer program is a comprehensive one, which includes chemotherapy, a hospice program, and an active physician Cancer Committee. The program is accredited by the American College of Surgeons.

Assessing the quality of all the services we provide is a primary goal at St. Elizabeth Hospital. We not only review every death, but we measure these using systems like APACHE II which show us to consistently experience a lower death rate than predicted. We will continue to evaluate HCFA's mortality data as one part of our ongoing efforts toward continuous improvements in the quality of care our patients receive.

Sincerely,

Paul E. Hess
President

MMN/jb

St. Elizabeth Hospital Medical Center
1501 Hartford St. • P.O. Box [illegible] Lafayette, IN 47903 • (317) 423-6011

ST FRANCIS HOSPITAL CENTER

1600 Albany Street
Beech Grove, IN 46107

Medicare Provider Number: 150033

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	3,790	9.6	9.3	0.5	14.4	14.0	0.6	18.3	17.7	0.8
CONDITIONS:										
Acute Myocardial Infarction	93	25.8	29.4	6.0	33.3	32.9	6.0	34.4	36.4	5.3
Congestive Heart Failure	197	14.7	15.2	4.0	22.3	23.8	3.7	29.4	30.8	4.6
Pneumonia/Influenza	169	14.8	16.1	3.9	20.1	22.1	4.0	26.6	26.8	3.4
Chronic Obstructive Pulmonary Disease	66	7.6	5.9	6.6	16.7	10.8	6.7	19.7	15.2	6.2
Transient Cerebral Ischemia	45	0.0	1.9	*	2.2	4.2	*	6.7	6.5	*
Stroke	159	22.6	22.5	3.4	28.9	29.0	3.7	35.2	33.5	4.1
Hip Fracture	95	4.2	6.3	2.7	10.5	11.3	3.5	16.8	14.6	3.8
Sepsis	64	26.6	29.9	9.3	31.3	37.6	6.9	35.9	43.9	7.3
PROCEDURES:										
Angioplasty	114	2.6	2.8	2.2	3.5	3.8	2.0	5.3	4.9	2.0
Coronary Artery Bypass Graft	104	5.8	3.9	2.5	6.7	5.5	2.6	8.7	6.6	3.7
Initial Pacemaker Insertion	27	0.0	2.7	*	7.4	5.4	*	7.4	8.0	*
Carotid Endarterectomy	19	5.3	1.1	*	5.3	2.1	*	5.3	3.0	*
Hip Replacement/Reconstruction	57	3.5	2.2	2.6	5.3	4.3	2.9	5.3	6.0	3.6
Open Reduction of Hip Fracture	56	3.6	5.6	4.5	14.3	10.5	5.2	19.6	13.9	7.9
Prostatectomy	106	0.0	1.0	1.4	1.9	2.4	1.6	2.8	4.1	2.6
Cholecystectomy	101	3.0	2.5	2.2	5.0	4.5	2.2	5.0	5.8	2.6
Hysterectomy	39	0.0	1.0	*	0.0	2.2	*	2.6	3.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1988

Total Beds	394
Occupancy Rate	78
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	178
Percent of Physicians Board Certified Specialists	84
Medical Residents/Interns	16
Registered Nurses	492
Licensed Practical Nurses	58

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

ST FRANCIS HOSPITAL CENTER

Medicare Provider Number: 150033

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,681	8.9	8.9	0.5	14.4	13.5	0.7	18.5	17.2	0.9
CONDITIONS:										
Acute Myocardial Infarction	96	24.0	30.9	8.4	30.2	34.2	9.6	30.2	37.9	10.8
Congestive Heart Failure	194	13.9	16.6	4.1	20.6	25.5	6.1	27.8	32.6	6.4
Pneumonia/Influenza	137	17.5	18.2	5.2	27.0	24.4	6.4	31.4	29.3	6.1
Chronic Obstructive Pulmonary Disease	58	13.8	5.6	4.7	24.1	11.0	6.3	29.3	16.0	7.3
Transient Cerebral Ischemia	49	4.1	1.9	*	4.1	4.1	*	10.2	6.4	*
Stroke	117	15.4	19.3	4.3	18.8	25.4	5.8	22.2	29.9	6.5
Hip Fracture	90	10.0	5.9	3.8	12.2	10.7	3.4	15.6	13.9	4.0
Sepsis	70	15.7	29.5	6.6	28.6	36.8	6.4	31.4	43.0	7.8
PROCEDURES:										
Angioplasty	89	5.6	3.8	3.1	6.7	4.6	3.8	9.0	5.6	4.9
Coronary Artery Bypass Graft	143	7.7	4.7	2.3	11.9	6.4	3.3	13.3	7.5	3.6
Initial Pacemaker Insertion	20	0.0	2.6	*	5.0	4.9	*	5.0	7.1	*
Carotid Endarterectomy	29	6.9	1.3	*	6.9	2.5	*	10.3	3.7	*
Hip Replacement/Reconstruction	59	3.4	2.8	3.3	8.5	5.3	4.6	8.5	7.0	4.7
Open Reduction of Hip Fracture	61	11.5	5.5	5.1	14.8	10.4	4.9	18.0	13.7	5.8
Prostatectomy	99	1.0	1.0	1.4	3.0	2.4	2.3	4.0	3.8	3.3
Cholecystectomy	94	6.4	3.9	2.8	10.6	7.0	3.6	11.7	9.0	3.6
Hysterectomy	32	0.0	1.1	*	3.1	2.0	*	6.3	2.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,841	9.9	8.1	0.6	15.2	12.6	0.9	18.4	16.2	0.8
CONDITIONS:										
Acute Myocardial Infarction	111	35.1	27.0	5.2	36.9	30.4	4.9	36.9	33.8	4.6
Congestive Heart Failure	151	22.5	16.8	4.5	32.5	25.8	5.6	37.7	32.9	4.6
Pneumonia/Influenza	161	15.5	15.8	4.8	23.6	21.9	4.2	28.0	26.7	3.9
Chronic Obstructive Pulmonary Disease	76	23.7	5.4	11.4	27.6	10.6	8.8	30.3	15.3	6.2
Transient Cerebral Ischemia	49	0.0	1.8	*	2.0	3.8	*	8.2	5.9	*
Stroke	137	20.4	21.3	3.6	26.3	28.0	4.3	29.9	32.7	4.9
Hip Fracture	114	11.4	5.5	4.1	14.9	10.2	4.6	19.3	13.4	5.1
Sepsis	53	28.3	31.0	6.5	32.1	38.1	7.9	34.0	44.5	9.4
PROCEDURES:										
Angioplasty	67	7.5	5.1	3.2	7.5	6.2	3.5	7.5	7.5	4.2
Coronary Artery Bypass Graft	98	5.1	4.7	2.2	9.2	6.4	2.9	11.2	7.4	3.5
Initial Pacemaker Insertion	30	10.0	4.2	*	10.0	8.6	*	13.3	12.7	*
Carotid Endarterectomy	31	0.0	1.5	*	0.0	2.9	*	0.0	4.3	*
Hip Replacement/Reconstruction	41	4.9	2.7	*	4.9	5.0	*	7.3	6.8	*
Open Reduction of Hip Fracture	72	12.5	5.0	4.4	16.7	9.8	5.2	19.4	13.2	5.3
Prostatectomy	103	1.9	1.2	1.5	2.9	3.0	1.8	5.8	5.1	2.6
Cholecystectomy	84	1.2	2.5	2.0	6.0	4.3	2.6	7.1	5.6	3.8
Hysterectomy	26	0.0	0.7	*	0.0	1.3	*	3.8	2.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

ST JOHNS MEDICAL CENTER

2015 Jackson St
Anderson, IN 46014

Medicare Provider Number: 150088

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,102	8.8	8.8	0.7	13.2	13.4	0.9	16.7	17.1	0.9
CONDITIONS:										
Acute Myocardial Infarction	62	25.8	27.1	5.7	27.4	29.8	6.0	32.3	33.1	6.2
Congestive Heart Failure	116	21.6	13.8	5.2	29.3	21.7	5.1	33.6	28.4	4.8
Pneumonia/Influenza	129	10.1	14.0	3.6	19.4	19.2	4.5	25.6	23.7	3.8
Chronic Obstructive Pulmonary Disease	15	6.7	11.1	*	20.0	16.0	*	20.0	20.6	*
Transient Cerebral Ischemia	32	0.0	2.0	*	6.3	4.4	*	15.6	7.1	*
Stroke	85	15.3	17.3	4.7	18.8	23.8	5.9	28.2	28.3	4.9
Hip Fracture	65	9.2	5.5	5.3	12.3	10.0	6.1	15.4	13.1	5.3
Sepsis	24	4.2	26.5	*	8.3	33.0	*	8.3	38.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	13	0.0	2.1	*	7.7	4.8	*	7.7	7.9	*
Carotid Endarterectomy	8	12.5	1.7	*	12.5	3.3	*	12.5	4.9	*
Hip Replacement/Reconstruction	40	7.5	3.5	*	7.5	6.6	*	15.0	9.1	*
Open Reduction of Hip Fracture	28	7.1	5.3	*	14.3	10.1	*	14.3	13.5	*
Prostatectomy	84	0.0	1.1	*	0.0	2.5	*	0.0	4.1	*
Cholecystectomy	54	1.9	1.8	2.6	3.7	3.3	2.6	3.7	4.4	3.0
Hysterectomy	8	0.0	1.5	*	0.0	3.5	*	0.0	5.6	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	371
Occupancy Rate	54
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	99
Percent of Physicians Board Certified Specialists	65
Medical Residents/Interns	0
Registered Nurses	187
Licensed Practical Nurses	52

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

ST JOHNS MEDICAL CENTER

Medicare Provider Number: 150088

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,066	9.5	8.8	0.8	14.6	13.3	0.9	17.3	17.0	0.9
CONDITIONS:										
Acute Myocardial Infarction	60	31.7	26.7	10.2	35.0	29.5	11.6	38.3	32.6	11.5
Congestive Heart Failure	141	15.6	13.6	5.4	25.5	21.0	6.9	34.0	27.3	8.0
Pneumonia/Influenza	83	16.9	15.2	4.2	25.3	20.8	6.5	28.9	25.2	7.7
Chronic Obstructive Pulmonary Disease	14	21.4	9.3	*	28.6	15.1	*	28.6	20.1	*
Transient Cerebral Ischemia	23	0.0	2.3	*	0.0	5.1	*	0.0	8.1	*
Stroke	78	29.5	20.7	7.4	37.2	27.4	7.1	39.7	32.2	6.3
Hip Fracture	64	6.3	5.6	3.1	9.4	10.5	4.1	12.5	13.7	4.5
Sepsis	27	11.1	27.4	*	14.8	34.3	*	18.5	40.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	11	0.0	2.1	*	0.0	4.2	*	0.0	6.4	*
Carotid Endarterectomy	4	0.0	1.4	*	0.0	2.6	*	0.0	3.7	*
Hip Replacement/Reconstruction	26	7.7	3.9	*	11.5	7.6	*	15.4	10.2	*
Open Reduction of Hip Fracture	32	6.3	5.3	*	9.4	10.1	*	9.4	13.3	*
Prostatectomy	78	1.3	1.4	1.4	2.6	2.8	1.9	2.6	4.3	2.7
Cholecystectomy	46	2.2	2.7	*	4.3	4.6	*	4.3	5.7	*
Hysterectomy	14	0.0	1.1	*	0.0	2.1	*	0.0	3.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,089	10.2	7.9	0.8	14.7	12.4	0.9	17.9	16.1	0.9
CONDITIONS:										
Acute Myocardial Infarction	61	34.4	25.8	7.3	39.3	29.2	7.9	41.0	32.8	7.8
Congestive Heart Failure	113	15.9	12.9	3.7	23.9	20.1	4.3	32.7	26.5	5.5
Pneumonia/Influenza	81	23.5	12.7	5.6	30.9	17.7	6.8	35.8	21.8	7.6
Chronic Obstructive Pulmonary Disease	36	5.6	10.7	*	11.1	17.5	*	19.4	22.9	*
Transient Cerebral Ischemia	37	5.4	1.9	*	5.4	3.8	*	5.4	6.0	*
Stroke	88	20.5	18.0	5.2	25.0	24.3	4.6	27.3	29.1	4.9
Hip Fracture	60	8.3	5.8	7.1	18.3	10.6	9.4	20.0	13.9	10.0
Sepsis	25	24.0	21.5	*	24.0	29.2	*	32.0	35.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	13	15.4	4.5	*	23.1	8.4	*	23.1	11.7	*
Carotid Endarterectomy	5	0.0	2.4	*	20.0	4.9	*	20.0	7.3	*
Hip Replacement/Reconstruction	28	7.1	3.7	*	14.3	7.0	*	14.3	9.6	*
Open Reduction of Hip Fracture	26	7.7	4.8	*	19.2	9.4	*	23.1	12.8	*
Prostatectomy	86	2.3	1.1	1.5	4.7	2.7	2.3	4.7	4.4	2.7
Cholecystectomy	57	1.8	2.4	2.4	5.3	4.2	2.9	5.3	5.6	3.6
Hysterectomy	13	0.0	1.4	*	0.0	3.0	*	0.0	4.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

Saint John's
Health Care Corporation

CARING SINCE
1894

Corporate Offices
2015 Jackson Street
Anderson, Indiana 46016-4339
(317) 649-2511

Saint John's Medical Center
2015 Jackson Street
Anderson, Indiana 46016-4339
(317) 649-2511

Anderson Center of Saint John's
2210 Jackson Street
Anderson, Indiana 46016-4363
(317) 646-8444

Saint John's Surgery Center
2201 Jackson Street
Anderson, Indiana 46016-4364
(317) 646-8490

Saint John's Continuing Care Center
2015 Jackson Street
Anderson, Indiana 46016-4339
(317) 646-8488

Saint John's Health Resource Center
2101 State Road 109 South
Anderson, Indiana 46016-5732
(317) 642-3301

Saint John's Home Health Care
and Hospice
3401 Nichol Avenue
Anderson, Indiana 46011-3060
(317) 646-8179

McVey Medical
1931 Brown Street
Anderson, Indiana 46016-4215
(317) 646-8366

Member of Holy Cross Health System

January 14, 1991

Healthcare Finance Administration
Health Standards and Quality Bureau
Attention: Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Ms. Gail R. Wilensky, Ph.D.

We are once again addressing the annual Mortality Report. We recognize that you have made many improvements and appreciate some of these changes such as the random selection with multiple admissions toequalize the previously successful treatments. We also feel that the new diagnosis and procedure clusters/categories are more appropriate. However, we do have other concerns regarding the report.

First let me preface this by stating that the analysis of mortality information is extremely important. This is an essential tool for screening purposes, however, it is not indicative of quality performance. Only by analyzing each specific case can you assess proper performance. We feel that many of the public will develop misconceptions regarding the data and perceive the statistics as a measure of performance especially if the confidence ranges are not published as well and if data from multiple facilities are published for comparisons. Another concern is the pertinence of 3 and 6 month data. There is the possibility of many other factors which could influence death that would not relate to the admission.

Regarding the predicted range, we feel the change from logistic regression is appropriate, however, the survival model and the logistic model both seem to develop statistical probability of death and you are measuring the quality of the statistical calculation rather than the quality of patient care outcome. Again the quality of outcome prediction should result in the individual analysis of each case as there are many variables which can eschew the statistical prediction. The outcome should equal the "care provided" plus "individual patient characteristics and multiple disease processes" plus "chance." Perhaps the statistical calculations should be based on historical data of actual standards of survival.

Another statistical inconsistency is that the calculated ranges can go into negatives with the bell curve. For example, if the predicted range is 5.5 and the standard deviaton is 5.3 then the predicted range at 95% intervals would be 16.1% to -4.17%. As the best possibility is no deaths 0%, we are unsure how to attain the statistic improvement to -4.7%.

Statistically we are right on the mean of 8.8% and our outcomes are the expected statistical outcome, but we feel that the information provides a focus for more specific evaluations.

Sincerely,

Ruth A. Walker, R.R.A.
Medical Records Director

RAW/ps

ST JOSEPH HOSPITAL & HEALTH CENTER

1907 West Sycamore Street
Kokomo, IN 46901

Medicare Provider Number: 150010

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,550	9.2	8.8	0.9	15.4	13.8	1.2	19.7	17.8	1.6
CONDITIONS:										
Acute Myocardial Infarction	51	33.3	24.4	12.9	41.2	27.7	13.5	41.2	31.1	13.3
Congestive Heart Failure	111	14.4	14.3	3.4	23.4	22.3	4.1	27.9	29.0	4.9
Pneumonia/Influenza	46	23.9	15.4	*	32.6	21.6	*	37.0	26.5	*
Chronic Obstructive Pulmonary Disease	18	5.6	6.4	*	11.1	11.6	*	11.1	16.7	*
Transient Cerebral Ischemia	18	5.6	2.0	*	11.1	4.4	*	11.1	7.1	*
Stroke	54	20.4	19.2	5.5	31.5	25.6	6.9	42.6	29.9	9.3
Hip Fracture	42	11.9	5.8	*	11.9	10.5	*	21.4	13.8	*
Sepsis	37	27.0	30.0	*	56.8	39.7	*	59.5	46.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	15	20.0	5.0	*	20.0	8.2	*	26.7	10.7	*
Carotid Endarterectomy	4	0.0	1.1	*	0.0	2.0	*	0.0	3.0	*
Hip Replacement/Reconstruction	25	12.0	3.1	*	12.0	6.0	*	16.0	8.2	*
Open Reduction of Hip Fracture	27	11.1	5.1	*	11.1	9.5	*	25.9	12.4	*
Prostatectomy	57	0.0	1.0	2.3	5.3	2.6	3.0	7.0	4.4	4.2
Cholecystectomy	30	3.3	2.2	*	3.3	4.2	*	3.3	5.7	*
Hysterectomy	9	0.0	0.5	*	0.0	0.9	*	0.0	1.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	161
Occupancy Rate	69
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	74
Percent of Physicians Board Certified Specialists	76
Medical Residents/Interns	0
Registered Nurses	176
Licensed Practical Nurses	10

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

ST JOSEPH HOSPITAL & HEALTH CENTER

Medicare Provider Number: 150010

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,526	12.1	9.5	1.0	17.8	14.4	1.4	21.3	18.5	1.3
CONDITIONS:										
Acute Myocardial Infarction	43	44.2	34.6	*	48.8	38.7	*	53.5	43.1	*
Congestive Heart Failure	87	17.2	14.5	6.7	25.3	22.7	5.2	29.9	29.3	5.0
Pneumonia/Influenza	48	25.0	17.4	*	33.3	23.5	*	33.3	28.3	*
Chronic Obstructive Pulmonary Disease	8	0.0	6.1	*	25.0	11.1	*	37.5	15.4	*
Transient Cerebral Ischemia	29	0.0	1.9	*	6.9	4.3	*	13.8	7.0	*
Stroke	63	25.4	23.2	6.0	33.3	29.7	6.7	36.5	34.4	6.2
Hip Fracture	38	2.6	4.9	*	5.3	9.1	*	5.3	12.0	*
Sepsis	16	37.5	30.1	*	43.8	38.4	*	50.0	45.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	16	0.0	5.8	*	12.5	10.8	*	12.5	15.8	*
Carotid Endarterectomy	2	0.0	1.0	*	0.0	1.8	*	0.0	2.6	*
Hip Replacement/Reconstruction	27	0.0	3.6	*	0.0	7.1	*	0.0	9.7	*
Open Reduction of Hip Fracture	18	5.6	4.1	*	11.1	7.8	*	11.1	10.3	*
Prostatectomy	42	4.8	1.5	*	4.8	3.6	*	7.1	5.5	*
Cholecystectomy	29	0.0	3.4	*	3.4	5.8	*	3.4	7.5	*
Hysterectomy	15	6.7	0.2	*	6.7	0.5	*	6.7	0.8	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,547	12.0	8.6	1.4	16.8	13.4	1.3	20.5	17.3	1.3
CONDITIONS:										
Acute Myocardial Infarction	34	35.3	29.4	*	35.3	32.7	*	41.2	36.2	*
Congestive Heart Failure	120	23.3	14.7	6.7	28.3	22.4	7.2	35.8	29.0	7.2
Pneumonia/Influenza	49	14.3	17.1	*	22.4	23.8	*	28.6	29.0	*
Chronic Obstructive Pulmonary Disease	26	11.5	7.1	*	11.5	12.9	*	19.2	18.0	*
Transient Cerebral Ischemia	26	0.0	2.1	*	0.0	4.7	*	11.5	7.5	*
Stroke	46	26.1	20.2	*	37.0	26.5	*	39.1	30.9	*
Hip Fracture	41	7.3	5.1	*	9.8	9.6	*	9.8	12.8	*
Sepsis	11	27.3	34.0	*	27.3	42.3	*	36.4	49.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	16	12.5	3.6	*	12.5	7.5	*	12.5	11.1	*
Carotid Endarterectomy	2	0.0	1.1	*	0.0	1.9	*	0.0	2.7	*
Hip Replacement/Reconstruction	24	8.3	3.0	*	8.3	6.0	*	8.3	8.1	*
Open Reduction of Hip Fracture	25	4.0	4.2	*	8.0	8.3	*	8.0	11.3	*
Prostatectomy	51	0.0	0.7	1.6	2.0	1.6	1.9	2.0	2.8	2.8
Cholecystectomy	31	12.9	2.3	*	12.9	4.4	*	12.9	6.0	*
Hysterectomy	15	6.7	1.1	*	6.7	2.5	*	6.7	3.9	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

ST JOSEPH HOSPITAL OF MISHAWAKA

215 W 4th St
Mishawaka, IN 46544

Medicare Provider Number: 150029

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,006	10.3	9.8	1.1	14.8	14.3	1.2	17.3	17.8	1.3
CONDITIONS:										
Acute Myocardial Infarction	35	20.0	26.4	*	22.9	30.0	*	22.9	33.7	*
Congestive Heart Failure	64	17.2	16.1	5.6	21.9	24.8	5.8	26.6	31.9	7.6
Pneumonia/Influenza	49	18.4	17.1	*	28.6	23.1	*	28.6	27.8	*
Chronic Obstructive Pulmonary Disease	10	20.0	8.1	*	30.0	12.9	*	30.0	17.2	*
Transient Cerebral Ischemia	13	0.0	2.0	*	0.0	4.4	*	0.0	7.1	*
Stroke	46	39.1	23.5	*	41.3	29.5	*	43.5	34.0	*
Hip Fracture	40	2.5	5.7	*	7.5	10.7	*	12.5	14.2	*
Sepsis	6	0.0	27.6	*	33.3	33.8	*	33.3	39.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	0.0	2.0	*	0.0	4.9	*	0.0	8.3	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	30	0.0	4.1	*	3.3	6.3	*	3.3	8.0	*
Open Reduction of Hip Fracture	25	0.0	4.9	*	8.0	9.3	*	16.0	12.5	*
Prostatectomy	25	4.0	0.8	*	4.0	1.9	*	4.0	3.2	*
Cholecystectomy	22	0.0	2.2	*	0.0	3.7	*	4.5	4.6	*
Hysterectomy	16	0.0	0.5	*	0.0	1.0	*	6.3	1.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1990

Total Beds	117
Ownership/Control	Church

STAFFING:

Medical Residents/Interns	0
Registered Nurses	121
Licensed Practical Nurses	19

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	Yes
Hospice	No
Intensive Care Unit	Yes
Organ Transplant	Yes
Rehabilitation	Yes
Shock Trauma	No

**** Not used in calculating hospital mortality rates.**

ST JOSEPH HOSPITAL OF MISHAWAKA

Medicare Provider Number: 150029

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,002	10.1	9.6	1.0	14.0	14.0	1.1	17.5	17.5	1.2
CONDITIONS:										
Acute Myocardial Infarction	27	25.9	26.6	*	25.9	29.5	*	25.9	32.9	*
Congestive Heart Failure	69	17.4	15.6	4.8	20.3	23.4	5.8	27.5	30.0	6.7
Pneumonia/Influenza	42	9.5	18.5	*	16.7	24.7	*	21.4	29.6	*
Chronic Obstructive Pulmonary Disease	21	14.3	8.0	*	19.0	13.5	*	23.8	18.5	*
Transient Cerebral Ischemia	15	0.0	1.8	*	6.7	3.8	*	6.7	6.0	*
Stroke	46	26.1	20.9	*	30.4	26.7	*	34.8	31.3	*
Hip Fracture	37	2.7	6.2	*	8.1	11.5	*	13.5	15.0	*
Sepsis	16	31.3	37.2	*	31.3	43.7	*	37.5	50.3	*
PROCEDURE:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	2.9	*	0.0	5.5	*	0.0	7.7	*
Carotid Endarterectomy	1	0.0	1.0	*	0.0	1.9	*	0.0	2.8	*
Hip Replacement/Reconstruction	39	2.6	2.1	*	5.1	4.2	*	10.3	5.7	*
Open Reduction of Hip Fracture	20	0.0	6.0	*	5.0	11.5	*	5.0	15.1	*
Prostatectomy	27	0.0	0.6	*	0.0	1.3	*	0.0	2.2	*
Cholecystectomy	27	0.0	1.4	*	0.0	2.4	*	0.0	3.1	*
Hysterectomy	10	0.0	0.8	*	0.0	1.7	*	0.0	2.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,071	10.1	9.9	1.0	13.8	14.3	1.2	17.1	17.9	1.4
CONDITIONS:										
Acute Myocardial Infarction	35	37.1	29.2	*	48.6	32.7	*	48.6	36.2	*
Congestive Heart Failure	55	12.7	17.2	8.6	21.8	25.1	6.7	29.1	31.8	7.1
Pneumonia/Influenza	56	16.1	18.5	5.5	19.6	24.7	6.8	21.4	29.7	8.5
Chronic Obstructive Pulmonary Disease	15	6.7	10.0	*	6.7	16.4	*	6.7	21.7	*
Transient Cerebral Ischemia	15	0.0	1.9	*	6.7	4.3	*	6.7	6.8	*
Stroke	53	28.3	24.8	8.5	32.1	30.9	8.5	34.0	35.6	7.0
Hip Fracture	33	9.1	5.3	*	27.3	10.1	*	30.3	13.5	*
Sepsis	8	37.5	35.2	*	37.5	41.9	*	37.5	48.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	8	0.0	3.7	*	0.0	7.3	*	12.5	10.5	*
Carotid Endarterectomy	1	0.0	1.1	*	0.0	2.3	*	0.0	3.6	*
Hip Replacement/Reconstruction	33	3.0	3.4	*	15.2	6.5	*	18.2	8.6	*
Open Reduction of Hip Fracture	12	8.3	5.2	*	25.0	10.5	*	25.0	14.4	*
Prostatectomy	27	0.0	0.5	*	7.4	1.1	*	7.4	1.9	*
Cholecystectomy	20	0.0	1.1	*	0.0	2.0	*	0.0	2.6	*
Hysterectomy	11	0.0	0.7	*	0.0	1.6	*	0.0	2.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

181.1

MISHAWAKA
ST. JOSEPH HOSPITAL

January 15, 1991

Medicare Provider No. 150029

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Re: FY 1989 Medicare Hospital Mortality Rates

Dear Mrs. Kappert:

As each previous year, we appreciate the opportunity to submit comments regarding the mortality information compiled for our hospital. This provides the forum to not only clarify the statistics but also provide additional information pertaining to quality assurance activities undertaken by the hospital and its medical staff.

In reviewing the guidelines issued by HCFA and AHA concerning interpretation of the mortality rates, there are points that we would like to emphasize.

1. The standard deviation of the predicted rate is a measure of the uncertainty of that rate. Using this definition and the supporting guidelines, we experience a 95% confidence interval that the actual observed rate does not deviate from the national average in all of the categories.

2. In the cases a standard deviation could not be provided by HCFA, you have indicated that the estimate must be considered uninterpretable, i.e., we cannot know whether there is a real difference between the observed rate and what would be expected. This situation is present in all but two of the reported rates.

215 West Fourth Street • Mishawaka, Indiana 46544 • (219) 259-2431
An Affiliate of Ancilla Systems

3. The one procedure which indicated a higher observed rate than the predicted rate was that of prostatectomy. Upon verification of the detail used by HCFA, this individual did not expire, thus the true observed rate should read 0.0%.

The HCFA mortality rates, regardless of the statistical model, has been used by our medical staff as one component to assess the quality of patient care provided at our hospital. All cases, which include Medicare beneficiaries, are reviewed by the medical staff for appropriateness of clinical care. Specific criteria are used to assess the management of care when a patient expires. This peer review allows all healthcare providers to assess and revise when necessary practice patterns in striving for continuous improvement in patient care. The mortality rates are useful only if used in conjunction with the peer review system and should not be interpreted as a sole indicator of quality.

Sincerely,

Cindy Seel, RRA

Cindy Seel,
Vice President, Quality/Risk Management

sjp

ST JOSEPH MEDICAL CENTER

700 Broadway
Fort Wayne, IN 46802

Medicare Provider Number: 150047

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,989	9.8	8.3	1.0	14.4	12.7	1.2	18.0	16.3	1.3
CONDITIONS:										
Acute Myocardial Infarction	55	20.0	25.8	9.3	23.6	29.1	9.3	29.1	32.5	8.4
Congestive Heart Failure	124	12.9	13.7	3.3	21.8	21.6	4.1	28.2	28.2	4.4
Pneumonia/Influenza	65	24.6	14.2	8.3	27.7	19.7	7.8	30.8	24.1	7.6
Chronic Obstructive Pulmonary Disease	17	29.4	7.2	*	35.3	12.8	*	35.3	17.5	*
Transient Cerebral Ischemia	16	6.3	1.9	*	6.3	4.3	*	18.8	7.0	*
Stroke	73	19.2	20.2	4.9	28.8	26.6	6.4	28.8	31.0	5.9
Hip Fracture	35	20.0	7.2	*	20.0	13.2	*	25.7	17.3	*
Sepsis	27	33.3	26.6	*	37.0	35.7	*	44.4	41.3	*
PROCEDURES:										
Angioplasty	69	7.2	3.1	5.3	7.2	4.0	5.6	8.7	5.1	5.6
Coronary Artery Bypass Graft	65	3.1	5.3	3.8	6.2	7.4	3.4	9.2	8.7	3.6
Initial Pacemaker Insertion	31	6.5	4.5	*	6.5	7.9	*	9.7	10.8	*
Carotid Endarterectomy	15	6.7	1.6	*	6.7	3.1	*	6.7	4.6	*
Hip Replacement/Reconstruction	26	11.5	4.1	*	15.4	7.9	*	15.4	10.9	*
Open Reduction of Hip Fracture	16	12.5	5.4	*	12.5	10.5	*	25.0	14.1	*
Prostatectomy	45	2.2	1.1	*	8.9	2.6	*	8.9	4.4	*
Cholecystectomy	43	7.0	2.7	*	9.3	4.7	*	9.3	6.0	*
Hysterectomy	12	8.3	0.5	*	16.7	1.3	*	16.7	2.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	328
Occupancy Rate	59
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	382
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	0
Registered Nurses	258
Licensed Practical Nurses	59

SPECIALTY SERVICES:

Burn Unit	Yes
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

ST JOSEPH MEDICAL CENTER

Medicare Provider Number: 150047

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,952	8.4	8.8	1.1	13.9	13.5	1.4	16.6	17.2	1.0
CONDITIONS:										
Acute Myocardial Infarction	48	12.5	27.6	*	18.8	30.7	*	20.8	33.9	*
Congestive Heart Failure	102	10.8	15.3	5.2	23.5	23.6	4.2	30.4	30.4	4.7
Pneumonia/Influenza	72	11.1	17.3	10.6	22.2	23.4	12.5	23.6	28.0	8.0
Chronic Obstructive Pulmonary Disease	12	25.0	7.3	*	25.0	11.7	*	25.0	15.5	*
Transient Cerebral Ischemia	28	3.6	2.0	*	3.6	4.3	*	3.6	6.7	*
Stroke	71	21.1	21.9	6.2	28.2	28.5	5.8	32.4	33.3	6.9
Hip Fracture	49	8.2	7.9	*	16.3	14.7	*	22.4	19.2	*
Sepsis	26	26.9	31.2	*	38.5	41.0	*	46.2	48.3	*
PROCEDURES:										
Angioplasty	62	3.2	3.2	2.5	4.8	4.0	3.0	4.8	5.1	2.9
Coronary Artery Bypass Graft	47	17.0	5.7	*	25.5	7.5	*	27.7	8.7	*
Initial Pacemaker Insertion	10	0.0	5.7	*	0.0	10.7	*	0.0	14.8	*
Carotid Endarterectomy	15	0.0	1.3	*	6.7	2.4	*	13.3	3.5	*
Hip Replacement/Reconstruction	28	3.6	5.9	*	10.7	11.3	*	10.7	14.8	*
Open Reduction of Hip Fracture	25	8.0	6.5	*	12.0	12.5	*	20.0	16.7	*
Prostatectomy	41	0.0	1.2	*	2.4	3.0	*	2.4	5.0	*
Cholecystectomy	32	3.1	2.6	*	12.5	4.7	*	12.5	6.1	*
Hysterectomy	9	0.0	0.2	*	0.0	0.4	*	0.0	0.5	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,041	8.9	7.4	0.8	13.7	11.5	1.1	17.1	14.8	1.2
CONDITIONS:										
Acute Myocardial Infarction	40	22.5	27.5	*	30.0	30.7	*	30.0	34.1	*
Congestive Heart Failure	121	19.8	14.5	5.4	25.6	22.2	4.9	29.8	28.7	4.2
Pneumonia/Influenza	65	9.2	18.1	8.7	27.7	24.3	5.6	27.7	29.0	6.1
Chronic Obstructive Pulmonary Disease	24	20.8	9.4	*	29.2	16.8	*	33.3	22.4	*
Transient Cerebral Ischemia	25	0.0	1.5	*	0.0	2.9	*	0.0	4.5	*
Stroke	90	23.3	20.4	5.0	28.9	27.1	5.8	35.6	31.9	6.5
Hip Fracture	30	10.0	6.6	*	23.3	12.4	*	30.0	16.4	*
Sepsis	23	39.1	28.7	*	43.5	35.7	*	56.5	42.2	*
PROCEDURES:										
Angioplasty	52	3.8	3.4	3.1	5.8	4.2	3.4	5.8	5.1	3.2
Coronary Artery Bypass Graft	48	14.6	4.9	*	16.7	6.4	*	16.7	7.2	*
Initial Pacemaker Insertion	25	4.0	4.3	*	12.0	8.5	*	12.0	12.2	*
Carotid Endarterectomy	13	0.0	1.4	*	0.0	2.6	*	0.0	3.8	*
Hip Replacement/Reconstruction	20	5.0	2.9	*	15.0	5.7	*	15.0	7.9	*
Open Reduction of Hip Fracture	16	0.0	5.7	*	12.5	11.4	*	25.0	15.3	*
Prostatectomy	63	1.6	1.3	1.5	1.6	3.1	2.5	4.8	5.1	2.9
Cholecystectomy	44	4.5	2.0	*	4.5	3.7	*	4.5	4.9	*
Hysterectomy	12	8.3	0.8	*	8.3	1.9	*	8.3	3.0	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

700 Broadway
Fort Wayne, IN 46802
(219) 425-3000

North Central Indiana Health System

St. Joseph Medical Center
700 Broadway
Fort Wayne, IN 46802
(219) 425-3000

Saint Joseph Hospital
215 West 4th Street
Mishawaka, IN 46544
(219) 259-2431

January 15, 1991

Medicare Provider No. 150047

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Re: FY 1989 Medicare Hospital Mortality Rates

Dear Mrs. Kappert:

As each previous year, we appreciate the opportunity to submit comments regarding the mortality information compiled for our hospital. This provides the forum to not only clarify the statistics but also provide additional information pertaining to quality assurance activities undertaken by the hospital and its medical staff.

In reviewing the guidelines issued by HCFA and AHA concerning interpretation of the mortality rates, there are points that we would like to emphasize.

1. The standard deviation of the predicted rate is a measure of the uncertainty of that rate. Using this definition and the supporting guidelines, we experience a 95% confidence interval that the actual observed rate does not deviate from the national average in all of the categories.

2. In the cases a standard deviation could not be provided by HCFA, you have indicated that the estimate must be considered uninterpretable, i.e., we cannot know whether there is a real difference between the observed rate and what would be expected. This situation is present in all but two of the reported rates.

The HCFA mortality rates, regardless of the statistical model, has been used by our medical staff as one component to assess the quality of patient care provided at our hospital. All cases, which include Medicare beneficiaries, are reviewed by the medical staff for appropriateness of clinical care. Specific criteria are used to assess the management of care when a patient expires. This peer review allows all healthcare providers to assess and revise when necessary practice patterns in striving for continuous improvement in patient care. The mortality rates are useful only if used in conjunction with the peer review system and should not be interpreted as a sole indicator of quality.

Sincerely,

Cindy Seel, RRA

Cindy Seel,
Vice President, Quality/Risk Management

sjp

ST JOSEPHS HOSPITAL

Leland Heights P O Box 148
Huntingburg, IN 47542

Medicare Provider Number: 150019

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	502	12.4	10.5	1.5	15.1	15.4	1.7	19.5	19.2	1.8
CONDITIONS:										
Acute Myocardial Infarction	20	45.0	29.0	*	50.0	32.0	*	50.0	35.5	*
Congestive Heart Failure	33	18.2	13.9	*	24.2	21.4	*	30.3	28.0	*
Pneumonia/Influenza	53	15.1	17.6	5.5	20.8	23.7	6.4	32.1	28.5	7.5
Chronic Obstructive Pulmonary Disease	4	0.0	6.6	*	0.0	14.8	*	0.0	22.8	*
Transient Cerebral Ischemia	13	7.7	1.6	*	7.7	3.6	*	15.4	5.8	*
Stroke	28	28.6	21.2	*	28.6	27.9	*	28.6	32.8	*
Hip Fracture	32	3.1	5.5	*	3.1	9.8	*	6.3	12.8	*
Sepsis	4	0.0	15.0	*	0.0	23.1	*	0.0	28.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	2.1	*	0.0	4.3	*	0.0	6.6	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	9	0.0	4.5	*	0.0	8.6	*	11.1	11.4	*
Open Reduction of Hip Fracture	20	0.0	4.8	*	0.0	9.2	*	0.0	12.2	*
Prostatectomy	9	0.0	1.5	*	0.0	3.7	*	0.0	6.4	*
Cholecystectomy	10	0.0	3.7	*	0.0	6.2	*	0.0	7.7	*
Hysterectomy	3	0.0	0.3	*	0.0	0.6	*	0.0	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	76
Occupancy Rate	34
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	21
Percent of Physicians Board Certified Specialists	81
Medical Residents/Interns	0
Registered Nurses	63
Licensed Practical Nurses	8

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

ST JOSEPHS HOSPITAL

Medicare Provider Number: 150019

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	527	12.5	11.5	2.2	18.2	16.7	2.2	22.0	20.8	2.1
CONDITIONS:										
Acute Myocardial Infarction	28	46.4	32.3	*	50.0	35.8	*	50.0	39.5	*
Congestive Heart Failure	27	22.2	15.3	*	25.9	23.3	*	29.6	29.9	*
Pneumonia/Influenza	36	22.2	23.0	*	36.1	30.4	*	38.9	35.7	*
Chronic Obstructive Pulmonary Disease	5	0.0	5.0	*	0.0	10.1	*	0.0	14.4	*
Transient Cerebral Ischemia	4	0.0	2.3	*	0.0	5.2	*	0.0	8.2	*
Stroke	22	18.2	21.7	*	22.7	28.5	*	22.7	33.7	*
Hip Fracture	17	5.9	9.1	*	17.6	15.7	*	17.6	19.7	*
Sepsis	10	30.0	21.2	*	30.0	27.0	*	30.0	31.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	13.2	*	0.0	17.8	*	0.0	21.1	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	5.2	*	0.0	9.3	*	0.0	11.8	*
Open Reduction of Hip Fracture	8	0.0	9.1	*	25.0	16.7	*	25.0	21.5	*
Prostatectomy	17	0.0	0.8	*	5.9	1.9	*	5.9	3.3	*
Cholecystectomy	13	0.0	0.9	*	0.0	1.6	*	0.0	2.1	*
Hysterectomy	4	0.0	0.1	*	0.0	0.3	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	555	9.5	9.4	1.9	14.2	14.3	1.8	17.5	18.1	1.9
CONDITIONS:										
Acute Myocardial Infarction	12	25.0	30.2	*	25.0	33.0	*	25.0	36.3	*
Congestive Heart Failure	34	20.6	14.8	*	38.2	22.6	*	38.2	29.3	*
Pneumonia/Influenza	36	11.1	15.1	*	11.1	20.4	*	16.7	24.8	*
Chronic Obstructive Pulmonary Disease	12	8.3	8.4	*	16.7	14.7	*	25.0	19.8	*
Transient Cerebral Ischemia	11	0.0	1.9	*	0.0	4.3	*	0.0	6.9	*
Stroke	22	22.7	21.5	*	27.3	27.2	*	27.3	31.8	*
Hip Fracture	13	7.7	6.8	*	15.4	11.9	*	23.1	15.2	*
Sepsis	4	0.0	29.3	*	0.0	35.5	*	0.0	41.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	14.3	1.9	*	14.3	4.2	*	14.3	6.5	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	0.0	1.9	*	0.0	3.8	*	33.3	5.4	*
Open Reduction of Hip Fracture	6	16.7	5.1	*	16.7	9.6	*	33.3	12.8	*
Prostatectomy	19	0.0	1.0	*	0.0	2.4	*	0.0	4.1	*
Cholecystectomy	6	0.0	2.2	*	0.0	3.7	*	16.7	4.6	*
Hysterectomy	5	0.0	1.5	*	0.0	3.3	*	0.0	4.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

ST JOSEPHS MEDICAL CENTER

801 E. Lasalle, P.O. Box 1935
South Bend, IN 46634

Medicare Provider Number: 150012

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,627	9.5	8.9	0.6	14.4	13.6	0.7	18.0	17.3	0.7
CONDITIONS:										
Acute Myocardial Infarction	87	21.8	30.5	7.5	24.1	33.7	7.7	28.7	37.4	7.4
Congestive Heart Failure	174	16.1	14.8	2.9	21.3	22.8	3.4	29.9	29.5	3.6
Pneumonia/Influenza	141	18.4	17.4	3.3	25.5	23.6	4.0	31.2	28.6	4.9
Chronic Obstructive Pulmonary Disease	56	8.9	7.4	3.9	16.1	12.7	5.9	19.6	17.2	6.1
Transient Cerebral Ischemia	30	3.3	1.7	*	6.7	3.8	*	10.0	6.1	*
Stroke	110	22.7	20.9	4.2	24.5	27.1	4.7	24.5	31.5	7.7
Hip Fracture	93	5.4	6.4	2.9	10.8	11.6	3.5	14.0	15.2	3.9
Sepsis	37	43.2	31.8	*	51.4	40.5	*	59.5	47.8	*
PROCEDURES:										
Angioplasty	15	13.3	5.4	*	20.0	6.4	*	20.0	7.6	*
Coronary Artery Bypass Graft	93	4.3	4.8	3.1	4.3	7.0	4.0	5.4	8.6	4.7
Initial Pacemaker Insertion	27	0.0	1.9	*	3.7	4.0	*	7.4	6.1	*
Carotid Endarterectomy	34	2.9	1.2	*	2.9	2.1	*	5.9	3.1	*
Hip Replacement/Reconstruction	94	1.1	2.4	2.1	2.1	4.2	3.5	3.2	5.5	4.2
Open Reduction of Hip Fracture	35	8.6	6.4	*	17.1	12.3	*	20.0	16.5	*
Prostatectomy	76	0.0	0.6	1.0	1.3	1.6	1.5	2.6	2.7	2.1
Cholecystectomy	69	10.1	3.4	5.5	11.6	6.1	6.1	13.0	7.8	6.3
Hysterectomy	34	0.0	1.1	*	0.0	2.5	*	2.9	3.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	339
Occupancy Rate	62
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	204
Percent of Physicians Board Certified Specialists	85
Medical Residents/Interns	19
Registered Nurses	438
Licensed Practical Nurses	52

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	Yes
Rehabilitation Unit	Yes
Trauma Center	Yes

**** Not used in calculating hospital mortality rates.**

ST JOSEPHS MEDICAL CENTER

Medicare Provider Number: 150012

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,664	9.5	9.2	0.8	14.8	13.8	0.9	18.2	17.5	1.1
CONDITIONS:										
Acute Myocardial Infarction	98	27.6	30.8	7.0	32.7	34.1	7.3	34.7	38.0	5.7
Congestive Heart Failure	151	17.2	15.9	3.8	31.1	24.0	5.6	38.4	30.8	6.3
Pneumonia/Influenza	123	18.7	18.7	3.7	26.8	25.4	5.4	34.1	30.5	6.2
Chronic Obstructive Pulmonary Disease	32	12.5	8.3	*	15.6	14.7	*	34.4	20.3	*
Transient Cerebral Ischemia	27	3.7	1.9	*	11.1	4.3	*	18.5	6.7	*
Stroke	133	23.3	22.2	5.8	30.1	28.5	5.4	35.3	33.1	6.4
Hip Fracture	98	7.1	6.0	2.7	8.2	11.0	4.2	13.3	14.4	3.9
Sepsis	48	35.4	30.8	*	41.7	38.5	*	43.8	44.7	*
PROCEDURES:										
Angioplasty	14	14.3	7.0	*	14.3	8.0	*	14.3	9.5	*
Coronary Artery Bypass Graft	65	6.2	6.4	3.9	6.2	8.5	4.9	6.2	9.7	5.3
Initial Pacemaker Insertion	29	3.4	6.3	*	3.4	9.9	*	3.4	13.0	*
Carotid Endarterectomy	26	0.0	1.3	*	3.8	2.5	*	3.8	3.7	*
Hip Replacement/Reconstruction	86	3.5	2.2	2.1	4.7	4.1	3.1	5.8	5.5	3.5
Open Reduction of Hip Fracture	49	4.1	5.5	*	4.1	10.6	*	12.2	14.0	*
Prostatectomy	85	0.0	0.6	1.0	0.0	1.5	1.7	1.2	2.5	2.3
Cholecystectomy	95	4.2	3.6	2.0	6.3	6.3	2.9	7.4	8.0	3.0
Hysterectomy	26	0.0	0.6	*	0.0	1.2	*	0.0	1.8	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,489	10.0	9.1	0.6	16.1	13.8	1.1	20.1	17.6	0.9
CONDITIONS:										
Acute Myocardial Infarction	88	26.1	28.9	5.1	33.0	32.2	5.2	35.2	35.7	5.6
Congestive Heart Failure	137	17.5	16.5	4.2	28.5	25.2	5.4	35.0	32.3	5.7
Pneumonia/Influenza	133	17.3	17.8	3.4	24.1	24.3	4.1	29.3	29.4	4.4
Chronic Obstructive Pulmonary Disease	29	17.2	9.1	*	24.1	15.0	*	34.5	19.7	*
Transient Cerebral Ischemia	23	4.3	1.8	*	13.0	3.9	*	13.0	6.1	*
Stroke	119	24.4	21.1	4.2	34.5	27.5	6.4	37.0	32.2	5.3
Hip Fracture	84	7.1	5.7	3.0	9.5	10.5	3.4	13.1	13.8	3.9
Sepsis	41	34.1	31.4	*	51.2	40.2	*	56.1	47.2	*
PROCEDURES:										
Angioplasty	9	0.0	3.2	*	0.0	4.7	*	0.0	6.3	*
Coronary Artery Bypass Graft	3	0.0	2.7	*	0.0	3.9	*	0.0	4.7	*
Initial Pacemaker Insertion	25	4.0	3.1	*	8.0	5.7	*	16.0	8.0	*
Carotid Endarterectomy	31	0.0	1.2	*	0.0	2.3	*	0.0	3.4	*
Hip Replacement/Reconstruction	103	1.0	2.6	2.0	1.9	5.1	3.4	3.9	6.9	3.9
Open Reduction of Hip Fracture	40	10.0	4.8	*	10.0	9.1	*	15.0	12.2	*
Prostatectomy	92	1.1	0.7	1.9	1.1	1.7	3.4	4.3	2.8	2.8
Cholecystectomy	65	0.0	2.4	2.9	1.5	4.2	3.9	1.5	5.4	4.5
Hysterectomy	22	4.5	1.5	*	13.6	3.0	*	18.2	4.7	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

ST MARGARET HOSPITAL & HEALTH CENTER

5454 Hohman Avenue
Hammond, IN 46320

Medicare Provider Number: 150004

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,820	9.4	8.8	0.6	13.9	13.2	0.8	17.3	16.8	0.9
CONDITIONS:										
Acute Myocardial Infarction	114	28.9	30.9	5.1	33.3	33.7	4.9	36.0	37.0	4.6
Congestive Heart Failure	219	12.3	14.5	3.6	19.6	22.1	5.4	24.2	28.6	7.0
Pneumonia/Influenza	120	22.5	17.1	6.6	29.2	23.6	6.4	32.5	28.4	5.4
Chronic Obstructive Pulmonary Disease	75	8.0	11.1	5.2	14.7	18.0	5.1	22.7	23.6	5.0
Transient Cerebral Ischemia	112	4.5	1.7	2.7	6.3	3.8	3.1	8.0	6.1	3.5
Stroke	161	22.4	21.5	3.4	29.8	27.4	5.2	36.6	31.8	4.2
Hip Fracture	73	6.8	5.7	2.8	16.4	10.3	4.5	24.7	13.4	6.4
Sepsis	53	30.2	28.9	6.4	43.4	37.3	8.0	45.3	43.6	9.8
PROCEDURES:										
Angioplasty	58	8.6	5.9	6.0	10.3	7.2	6.4	12.1	8.5	6.4
Coronary Artery Bypass Graft	38	5.3	7.4	*	7.9	9.4	*	10.5	10.6	*
Initial Pacemaker Insertion	23	8.7	4.1	*	8.7	7.7	*	13.0	10.8	*
Carotid Endarterectomy	28	3.6	1.4	*	3.6	2.7	*	7.1	4.1	*
Hip Replacement/Reconstruction	28	7.1	3.0	*	14.3	5.7	*	14.3	7.6	*
Open Reduction of Hip Fracture	22	0.0	5.1	*	18.2	9.6	*	22.7	12.6	*
Prostatectomy	149	1.3	0.7	1.1	2.0	1.8	1.8	4.0	3.0	1.9
Cholecystectomy	80	5.0	2.9	2.4	5.0	4.3	2.5	5.0	5.1	2.9
Hysterectomy	31	0.0	0.6	*	0.0	1.5	*	3.2	2.2	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	413
Occupancy Rate	77
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	283
Percent of Physicians Board Certified Specialists	69
Medical Residents/Interns	0
Registered Nurses	422
Licensed Practical Nurses	8

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

ST MARGARET HOSPITAL & HEALTH CENTER

Medicare Provider Number: 150004

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,676	10.7	9.3	0.6	15.8	14.0	0.8	19.4	17.7	0.9
CONDITIONS:										
Acute Myocardial Infarction	102	26.5	32.2	7.2	31.4	35.8	7.5	36.3	39.7	7.3
Congestive Heart Failure	210	20.0	15.5	3.3	29.5	24.0	4.0	38.6	30.9	5.2
Pneumonia/Influenza	119	26.1	18.7	4.5	32.8	25.6	4.7	37.0	30.6	5.0
Chronic Obstructive Pulmonary Disease	68	1.5	9.8	4.4	5.9	16.7	6.3	7.4	22.4	6.9
Transient Cerebral Ischemia	103	0.0	1.8	2.4	1.9	3.9	3.2	5.8	6.1	3.1
Stroke	146	23.3	22.0	3.7	29.5	27.8	4.8	35.6	32.3	4.7
Hip Fracture	66	6.1	6.1	3.2	7.6	10.8	4.7	9.1	13.8	6.5
Sepsis	54	25.9	29.8	7.4	38.9	38.5	6.9	46.3	44.8	7.5
PROCEDURES:										
Angioplasty	30	10.0	6.5	*	13.3	7.6	*	13.3	8.8	*
Coronary Artery Bypass Graft	25	12.0	7.1	*	16.0	9.6	*	16.0	11.0	*
Initial Pacemaker Insertion	30	10.0	5.5	*	13.3	9.1	*	16.7	12.2	*
Carotid Endarterectomy	27	3.7	1.3	*	3.7	2.5	*	3.7	3.6	*
Hip Replacement/Reconstruction	36	5.6	3.4	*	5.6	6.3	*	5.6	8.3	*
Open Reduction of Hip Fracture	23	4.3	5.8	*	8.7	10.7	*	8.7	13.7	*
Prostatectomy	109	1.8	1.0	1.3	2.8	2.2	1.5	3.7	3.5	2.6
Cholecystectomy	79	5.1	2.7	2.8	6.3	5.0	3.0	6.3	6.6	3.4
Hysterectomy	29	0.0	1.1	*	10.3	2.0	*	13.8	2.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,257	10.2	9.9	0.8	16.6	14.7	1.0	20.3	18.4	1.0
CONDITIONS:										
Acute Myocardial Infarction	112	30.4	31.6	5.8	36.6	34.7	6.5	37.5	38.3	4.7
Congestive Heart Failure	207	14.5	17.6	4.2	30.4	26.4	3.8	36.7	33.4	3.9
Pneumonia/Influenza	100	19.0	16.3	6.2	27.0	22.1	7.9	31.0	26.6	7.9
Chronic Obstructive Pulmonary Disease	61	13.1	10.9	4.8	18.0	17.6	5.2	21.3	22.8	6.3
Transient Cerebral Ischemia	100	2.0	2.0	1.7	3.0	4.4	2.8	7.0	7.0	2.7
Stroke	127	24.4	23.5	3.9	35.4	29.6	5.7	40.2	34.1	5.5
Hip Fracture	74	8.1	6.4	4.7	16.2	11.7	8.4	20.3	15.2	9.7
Sepsis	44	34.1	33.7	*	40.9	42.4	*	47.7	48.8	*
PROCEDURES:										
Angioplasty	4	0.0	6.6	*	0.0	8.2	*	0.0	9.9	*
Coronary Artery Bypass Graft	17	11.8	11.8	*	29.4	14.7	*	29.4	16.4	*
Initial Pacemaker Insertion	30	3.3	5.6	*	16.7	11.0	*	26.7	15.9	*
Carotid Endarterectomy	21	4.8	1.5	*	4.8	2.9	*	4.8	4.2	*
Hip Replacement/Reconstruction	30	3.3	3.9	*	3.3	7.6	*	6.7	10.5	*
Open Reduction of Hip Fracture	22	13.6	6.8	*	22.7	12.4	*	27.3	15.9	*
Prostatectomy	128	1.6	0.9	1.0	3.1	2.3	1.5	3.1	3.8	2.1
Cholecystectomy	65	1.5	3.5	2.9	7.7	6.3	3.2	12.3	8.1	4.5
Hysterectomy	27	0.0	0.6	*	0.0	1.4	*	0.0	2.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

SAINT MARGARET HOSPITAL AND HEALTH CENTERS
5454 Hohman Avenue, Hammond, Indiana 46320 [illegible]

January 11, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Mrs. Kappert,

Thank you for affording us the opportunity to respond to the annual release of Medicare hospital mortality information as it pertains to Saint Margaret Hospital and Health Centers.

At the outset allow me to say we are strongly committed to the value and the process of Quality Assessment, in keeping with our belief, as a Catholic hospital, in the sanctity of all human life. National studies such as the one conducted by the Health Care Financing Administration, used in conjunction with on-site Quality Assessment efforts, can be a valuable tool for self-evaluation. But we remain concerned that the release of the data in your study, when used alone, can lead to erroneous and potentially harmful conclusions. In that regard, I would like to raise the following points:

In your cover letter inviting comment you suggest we may "want to gather or present information on events occurring after a patient was discharged." In our case your study looked at the records of 3,820 patients. Given the resources available to us, to say nothing of the time we have in which to respond, it is impractical to expect us in two pages to respond to individual cases in any but the most general terms. Similarly, the methodology you employed, which you describe as the Bailey modification of the Makeham model, required six pages of your own report just to explain how it functioned. Our own misgivings about some aspects of the Bailey modification of the Makeham model notwithstanding, the limits placed on the length of our response preclude any discussion of methodology as well. Therefore, allow me to point out five general aspects of the study that have the potential to confuse those reviewing its contents.

1. While extending the study to cover 180 days after a patient's discharge was intended to provide a more accurate picture of mortality data, unfortunately the opposite has been achieved for the data does not reflect the cause of death of a patient, but only the fact of death. Thus, an elderly patient who is treated for a broken hip, released, and later dies of a heart attack may be classified as a hip fracture mortality. The fact that our highest levels of mortality tended to occur in the 180 day range strongly suggests, at the very least, that the linkage between the cause of death and the original reason for admission to the hospital is suspect.

2. The study does not distinguish between patients who had one admission for one diagnosis and those who had multiple admissions for a variety of reasons, quite possibly at several distinct hospital facilities. Patients admitted at one institution for a stroke, sent for rehabilitation to a second and who expire for unrelated reasons in the emergency room at a third are randomly assigned to the data base of one of the three institutions.

3. Eighteen of the individual categories of your study are listed as "too small to permit satisfactory estimation of the standard deviation," yet for the same procedures in other categories statistical conclusions are nonetheless projected. If the data is too small in one category of a given procedure to allow the standard of deviation to be calculated, then certainly it follows that the validity of any conclusions drawn from that data are suspect.

4. The data does not identify patients who have living wills or were listed as Do Not Resuscitate cases. Such patients at our institution deserve, and receive, all the love and support we are capable of giving, but the outcome of their cases is terminal and perhaps should not be included in a study of this type.

5. Because of our commitment, as Sisters of Saint Francis, to treat all in need, the demographics of our patient service area, and the excellence of our Emergency Center, the severity of illness of many of the patients we routinely treat exceeds that of many of the hospitals to which we are compared in the study. Your data does not reflect the acuity level of our patients.

Thank you for affording us the opportunity to put our concerns on record. I know you join me in the hope that all of our efforts will further the well being of the patients we serve.

Sincerely,

Sister Jane Marie Klein

Sister Jane Marie Klein, O.S.F.
President and CEO

SJMK/ah

ST MARY MEDICAL CENTER

540 Tyler St
Gary, IN 46402

Medicare Provider Number: 150034

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	3,029	7.3	8.3	1.0	12.7	12.6	1.0	15.8	16.1	0.7
CONDITIONS:										
Acute Myocardial Infarction	63	15.9	24.1	10.4	15.9	26.7	10.4	22.2	29.7	9.7
Congestive Heart Failure	133	6.8	15.0	4.9	18.0	23.2	4.6	25.6	29.9	4.7
Pneumonia/Influenza	96	19.8	15.6	6.6	26.0	21.1	7.8	28.1	25.7	6.4
Chronic Obstructive Pulmonary Disease	77	3.9	9.5	6.0	11.7	15.9	6.3	18.2	21.4	5.8
Transient Cerebral Ischemia	119	1.7	1.9	1.6	4.2	4.4	3.0	10.1	7.1	3.3
Stroke	97	22.7	21.4	4.3	30.9	28.0	6.1	37.1	32.6	7.9
Hip Fracture	31	9.7	7.7	*	25.8	13.7	*	29.0	17.6	*
Sepsis	38	23.7	27.0	*	42.1	34.7	*	42.1	40.8	*
PROCEDURES:										
Angioplasty	17	0.0	4.6	*	0.0	5.5	*	0.0	6.5	*
Coronary Artery Bypass Graft	41	0.0	5.2	*	2.4	7.2	*	4.9	8.4	*
Initial Pacemaker Insertion	17	0.0	3.5	*	5.9	7.0	*	17.6	10.4	*
Carotid Endarterectomy	20	0.0	1.3	*	5.0	2.5	*	15.0	3.7	*
Hip Replacement/Reconstruction	25	8.0	4.5	*	16.0	8.3	*	16.0	10.9	*
Open Reduction of Hip Fracture	4	0.0	7.4	*	0.0	13.3	*	25.0	17.1	*
Prostatectomy	105	1.0	1.5	1.3	1.9	3.7	2.2	2.9	6.1	3.4
Cholecystectomy	38	10.5	3.3	*	13.2	6.1	*	13.2	8.1	*
Hysterectomy	12	0.0	0.7	*	0.0	1.7	*	0.0	2.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1989

Total Beds	494
Ownership/Control	Church

STAFFING:

Medical Residents/Interns	0
Registered Nurses	347
Licensed Practical Nurses	74

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	Yes
Hospice	No
Intensive Care Unit	Yes
Organ Transplant	No
Rehabilitation	No
Shock Trauma	Yes

**** Not used in calculating hospital mortality rates.**

ST MARY MEDICAL CENTER

Medicare Provider Number: 150034

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,890	8.4	8.7	0.5	14.0	13.2	0.8	17.5	16.8	0.8
CONDITIONS:										
Acute Myocardial Infarction	69	30.4	27.9	6.9	33.3	31.0	8.3	37.7	34.4	9.3
Congestive Heart Failure	145	13.1	16.3	5.6	20.0	25.1	7.3	27.6	32.0	6.8
Pneumonia/Influenza	93	16.1	16.7	5.0	18.3	22.5	6.1	23.7	27.1	6.1
Chronic Obstructive Pulmonary Disease	55	7.3	13.0	5.8	16.4	20.9	5.9	18.2	26.8	7.1
Transient Cerebral Ischemia	82	2.4	2.1	1.8	4.9	4.5	2.5	7.3	7.1	3.3
Stroke	114	21.9	21.2	3.8	32.5	27.8	5.2	39.5	32.5	5.5
Hip Fracture	38	13.2	6.9	*	18.4	12.3	*	26.3	15.7	*
Sepsis	32	21.9	30.0	*	46.9	37.6	*	53.1	44.0	*
PROCEDURE:										
Angioplasty	15	0.0	1.3	*	0.0	2.0	*	0.0	2.9	*
Coronary Artery Bypass Graft	48	12.5	9.6	*	18.8	13.4	*	18.8	15.5	*
Initial Pacemaker Insertion	14	7.1	4.0	*	7.1	7.8	*	7.1	11.3	*
Carotid Endarterectomy	19	5.3	1.4	*	5.3	2.6	*	21.1	3.8	*
Hip Replacement/Reconstruction	33	6.1	4.5	*	12.1	8.6	*	12.1	11.2	*
Open Reduction of Hip Fracture	5	0.0	4.3	*	0.0	8.4	*	0.0	11.4	*
Prostatectomy	108	0.0	1.2	1.6	4.6	3.0	2.2	6.5	4.9	2.7
Cholecystectomy	24	4.2	2.7	*	4.2	4.8	*	4.2	6.3	*
Hysterectomy	12	0.0	6.3	*	8.3	8.7	*	8.3	11.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,490	7.9	9.2	0.7	13.2	13.8	0.7	16.5	17.5	0.9
CONDITIONS:										
Acute Myocardial Infarction	55	30.9	28.0	6.1	41.8	31.0	6.8	41.8	34.4	7.4
Congestive Heart Failure	133	13.5	14.9	3.3	24.1	22.6	4.4	29.3	29.1	4.2
Pneumonia/Influenza	82	17.1	17.2	4.2	25.6	23.0	5.3	30.5	27.6	6.3
Chronic Obstructive Pulmonary Disease	53	0.0	11.8	11.3	3.8	19.0	12.8	7.5	24.7	12.2
Transient Cerebral Ischemia	75	1.3	2.0	3.3	5.3	4.4	3.1	5.3	7.1	4.8
Stroke	122	17.2	20.9	5.8	23.0	27.6	6.5	27.0	32.3	7.8
Hip Fracture	35	8.6	6.3	*	8.6	11.0	*	14.3	14.1	*
Sepsis	22	18.2	35.2	*	27.3	45.8	*	45.5	53.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	1	0.0	6.3	*	0.0	7.6	*	0.0	8.8	*
Initial Pacemaker Insertion	6	16.7	10.8	*	16.7	16.2	*	16.7	21.2	*
Carotid Endarterectomy	9	0.0	1.5	*	0.0	2.7	*	0.0	3.9	*
Hip Replacement/Reconstruction	18	5.6	2.8	*	5.6	5.3	*	5.6	7.0	*
Open Reduction of Hip Fracture	9	0.0	6.2	*	0.0	11.0	*	11.1	14.0	*
Prostatectomy	96	1.0	1.4	1.3	4.2	3.4	2.0	5.2	5.6	2.4
Cholecystectomy	37	2.7	2.6	*	8.1	4.6	*	8.1	5.8	*
Hysterectomy	8	0.0	0.4	*	0.0	0.9	*	0.0	1.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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540 Tyler Street
Gary, Indiana 46402
(219) 882-9411

St. Mary Medical Center

January 15, 1991

Ms. Gail R. Wilensky, Ph.D.
Administrator
Health Care Financing Administration
Department of Health and Human Services
6325 Security Boulevard
Baltimore, MD 21207

Dear Ms. Wilensky:

We would like to thank the Health Care Financing Administration for the opportunity to review and respond to the 1989 Medicare patients' mortality data. The hospital acknowledges and supports the Health Care Financing Administration, as well as other reputable and qualified organizations and agencies such as the American Hospital Association and the Joint Commission on Healthcare Organizations, in their effort to promote consumer awareness and understanding of quality healthcare indicators.

Representative of our commitment to quality healthcare, St. Catherine Hospital employs its comprehensive Quality Assurance Program to ensure the continuous evaluation of patient care. Our medical staff's peer review of patient mortality data is one component of the program. Because we recognize that mortality rates, by themselves, are not a complete measure of quality care, we analyze data on all patients, in all circumstances. We believe our program accounts for the unique characteristics of our patients, our hospital, and our community. We consider the information generated by the Health Care Financing Administration a tool in evaluating quality care.

We recognize that, in an attempt to provide a more valid measure of quality care, HCFA has adjusted the model from previous years. However, we feel compelled to note that a great deal of the information we reviewed for our hospitals was statistically insignificant, by HCFA's own definition. We believe this may lead to widespread misunderstanding of the data when it is released to the public. Most healthcare consumers will not have the benefit of a detailed explanation of the HCFA's statistical model. We support further progress in the area of increased validity, but we ask that HCFA give careful consideration to the fact that misleading interpretations are likely to result from such complexities in the model.

Sincerely,

John R. Birdzell
President

ANCILLA SYSTEMS AFFILIATE

ST MARYS MEDICAL CENTER

3700 Washington Avenue
Evansville, IN 47715

Medicare Provider Number: 150100

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,934	8.7	8.3	0.6	12.7	12.7	0.7	16.1	16.2	0.7
CONDITIONS:										
Acute Myocardial Infarction	110	31.8	25.5	7.8	36.4	28.7	8.5	40.0	32.0	9.3
Congestive Heart Failure	126	22.2	14.9	5.7	27.8	23.2	5.4	34.1	30.1	4.8
Pneumonia/Influenza	111	21.6	16.5	5.9	25.2	22.3	5.1	27.9	26.9	4.4
Chronic Obstructive Pulmonary Disease	46	10.9	5.3	*	15.2	10.0	*	21.7	14.1	*
Transient Cerebral Ischemia	31	3.2	2.2	*	6.5	4.9	*	12.9	7.8	*
Stroke	96	7.3	21.0	5.7	14.6	27.1	6.2	20.8	31.3	5.6
Hip Fracture	82	4.9	6.9	3.2	6.1	11.9	5.0	8.5	15.2	6.2
Sepsis	21	14.3	27.7	*	23.8	36.8	*	23.8	43.9	*
PROCEDURES:										
Angioplasty	50	4.0	4.0	*	6.0	5.2	*	6.0	6.5	*
Coronary Artery Bypass Graft	78	3.8	5.7	2.9	10.3	8.0	3.8	12.8	9.5	3.5
Initial Pacemaker Insertion	28	3.6	3.0	*	7.1	6.3	*	14.3	9.5	*
Carotid Endarterectomy	23	0.0	1.4	*	0.0	2.5	*	8.7	3.7	*
Hip Replacement/Reconstruction	67	4.5	3.3	2.8	6.0	6.1	3.5	7.5	8.1	4.9
Open Reduction of Hip Fracture	38	5.3	6.8	*	5.3	12.2	*	7.9	15.5	*
Prostatectomy	118	0.8	0.8	1.0	1.7	1.9	1.6	3.4	3.2	1.6
Cholecystectomy	59	5.1	2.5	3.3	8.5	4.5	3.6	8.5	6.0	3.6
Hysterectomy	25	0.0	0.4	*	4.0	0.8	*	4.0	1.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	530
Occupancy Rate	53
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	225
Percent of Physicians Board Certified Specialists	71
Medical Residents/Interns	15
Registered Nurses	423
Licensed Practical Nurses	8

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

ST MARYS MEDICAL CENTER

Medicare Provider Number: 150100

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,943	8.5	9.5	0.8	13.0	14.1	1.0	16.1	17.8	1.1
CONDITIONS:										
Acute Myocardial Infarction	116	23.3	30.5	5.9	28.4	33.4	5.4	31.0	36.8	5.5
Congestive Heart Failure	138	13.8	15.9	3.8	23.9	24.0	3.7	29.7	30.9	4.3
Pneumonia/Influenza	100	20.0	18.1	4.3	26.0	24.3	4.6	27.0	29.1	5.2
Chronic Obstructive Pulmonary Disease	24	0.0	5.4	*	8.3	10.4	*	12.5	14.8	*
Transient Cerebral Ischemia	44	0.0	2.1	*	4.5	4.4	*	11.4	6.9	*
Stroke	108	22.2	24.2	4.8	26.9	30.9	6.8	28.7	35.5	8.5
Hip Fracture	78	6.4	8.9	4.2	12.8	15.5	6.0	12.8	19.2	7.3
Sepsis	45	24.4	30.6	*	40.0	38.2	*	46.7	44.1	*
PROCEDURES:										
Angioplasty	45	2.2	5.7	*	4.4	6.7	*	4.4	7.9	*
Coronary Artery Bypass Graft	47	4.3	6.2	*	4.3	8.5	*	6.4	9.8	*
Initial Pacemaker Insertion	18	0.0	3.5	*	5.6	6.8	*	5.6	9.8	*
Carotid Endarterectomy	25	0.0	1.4	*	4.0	2.5	*	4.0	3.6	*
Hip Replacement/Reconstruction	65	3.1	4.4	2.8	7.7	8.0	3.4	7.7	10.4	4.4
Open Reduction of Hip Fracture	42	7.1	8.1	*	11.9	14.4	*	11.9	18.2	*
Prostatectomy	74	0.0	1.4	2.1	2.7	3.4	2.5	6.8	5.5	3.1
Cholecystectomy	47	10.6	2.5	*	10.6	4.6	*	14.9	6.2	*
Hysterectomy	24	0.0	0.3	*	0.0	0.6	*	0.0	0.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,882	9.2	9.0	0.6	13.8	13.7	0.8	17.2	17.4	0.8
CONDITIONS:										
Acute Myocardial Infarction	92	39.1	28.5	6.8	44.6	31.8	6.6	46.7	35.2	6.7
Congestive Heart Failure	160	18.8	17.4	3.5	30.6	26.1	5.0	41.9	33.3	6.6
Pneumonia/Influenza	96	16.7	15.7	3.8	20.8	21.1	4.5	21.9	25.7	5.6
Chronic Obstructive Pulmonary Disease	39	12.8	8.7	*	20.5	14.6	*	20.5	19.5	*
Transient Cerebral Ischemia	38	0.0	2.0	*	5.3	4.0	*	10.5	6.2	*
Stroke	89	23.6	21.3	5.6	30.3	29.0	5.1	34.8	33.7	6.0
Hip Fracture	67	6.0	6.8	3.5	6.0	12.2	5.2	6.0	15.7	7.1
Sepsis	30	10.0	23.8	*	16.7	30.6	*	40.0	36.1	*
PROCEDURES:										
Angioplasty	34	11.8	6.7	*	11.8	7.8	*	11.8	9.1	*
Coronary Artery Bypass Graft	45	6.7	5.8	*	13.3	8.0	*	13.3	9.3	*
Initial Pacemaker Insertion	21	4.8	5.7	*	4.8	10.7	*	4.8	15.3	*
Carotid Endarterectomy	27	3.7	1.8	*	3.7	3.3	*	3.7	4.7	*
Hip Replacement/Reconstruction	47	4.3	5.1	*	4.3	10.0	*	4.3	13.5	*
Open Reduction of Hip Fracture	31	6.5	5.8	*	6.5	10.7	*	6.5	13.8	*
Prostatectomy	90	2.2	1.1	1.4	2.2	2.6	1.7	3.3	4.3	2.4
Cholecystectomy	53	3.8	2.7	2.4	3.8	4.9	3.2	7.5	6.7	3.5
Hysterectomy	24	0.0	0.8	*	0.0	1.7	*	0.0	2.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

ST VINCENT HOSPITAL & HEALTH CENTER

2001 West 86th Street
Indianapolis, IN 46207

Medicare Provider Number: 150084

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	7,392	7.7	7.8	0.3	11.9	12.0	0.6	14.8	15.3	0.7
CONDITIONS:										
Acute Myocardial Infarction	276	17.4	24.2	3.9	20.3	27.9	4.2	23.9	31.5	4.5
Congestive Heart Failure	306	20.9	15.8	3.3	31.0	24.5	3.6	38.2	31.6	3.8
Pneumonia/Influenza	161	15.5	18.9	7.4	26.1	25.8	7.3	29.8	30.9	5.7
Chronic Obstructive Pulmonary Disease	57	5.3	7.7	4.2	12.3	13.2	5.4	14.0	18.2	7.5
Transient Cerebral Ischemia	83	4.8	2.0	2.6	7.2	4.5	3.1	8.4	7.0	3.1
Stroke	154	20.8	21.7	3.5	26.6	27.9	4.8	29.9	32.5	5.5
Hip Fracture	155	6.5	6.2	2.0	11.0	11.2	2.5	14.2	14.5	2.9
Sepsis	53	35.8	35.6	7.9	49.1	45.6	7.6	52.8	53.2	6.9
PROCEDURES:										
Angioplasty	380	2.4	2.9	1.6	3.2	3.9	1.9	3.9	5.1	2.1
Coronary Artery Bypass Graft	322	5.6	4.5	1.6	7.8	6.6	1.7	8.4	8.1	1.5
Initial Pacemaker Insertion	59	3.4	3.8	2.6	3.4	7.5	5.1	11.9	10.9	4.3
Carotid Endarterectomy	121	1.7	1.4	1.1	2.5	2.6	1.6	3.3	3.8	1.9
Hip Replacement/Reconstruction	149	3.4	2.7	1.6	5.4	4.9	1.8	6.7	6.5	2.1
Open Reduction of Hip Fracture	82	4.9	6.0	2.9	12.2	11.3	3.6	15.9	14.9	4.6
Prostatectomy	176	1.1	1.0	1.0	2.8	2.4	1.4	2.8	3.9	2.2
Cholecystectomy	114	3.5	3.4	2.1	9.6	5.9	3.1	11.4	7.5	3.6
Hysterectomy	56	1.8	0.7	1.4	3.6	1.5	2.4	5.4	2.3	3.7

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	809
Occupancy Rate	74
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	615
Percent of Physicians Board Certified Specialists	68
Medical Residents/Interns	73
Registered Nurses	1,043
Licensed Practical Nurses	134

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	Yes
Other Intensive Care	Yes
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

ST VINCENT HOSPITAL & HEALTH CENTER

Medicare Provider Number: 150084

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	6,764	7.8	7.9	0.4	12.1	12.0	0.7	14.9	15.3	0.8
CONDITIONS:										
Acute Myocardial Infarction	173	22.0	23.4	3.3	23.1	26.8	3.6	24.3	30.4	4.2
Congestive Heart Failure	238	20.6	17.2	5.2	31.1	26.3	5.7	36.1	33.6	4.6
Pneumonia/Influenza	151	19.2	19.4	3.4	27.2	25.8	3.8	31.8	30.8	3.9
Chronic Obstructive Pulmonary Disease	46	10.9	10.9	*	19.6	18.0	*	21.7	24.0	*
Transient Cerebral Ischemia	64	1.6	1.9	2.0	3.1	4.0	3.7	3.1	6.3	5.6
Stroke	143	14.7	23.5	5.0	23.1	29.7	4.6	29.4	34.4	4.5
Hip Fracture	139	5.8	6.8	2.3	12.2	12.7	3.0	15.1	16.6	3.9
Sepsis	41	29.3	37.3	*	43.9	46.1	*	48.8	53.1	*
PROCEDURES:										
Angioplasty	342	2.0	2.7	1.3	2.6	3.5	1.7	3.5	4.5	2.0
Coronary Artery Bypass Graft	329	7.9	5.1	2.2	11.6	7.3	2.4	12.5	8.7	2.4
Initial Pacemaker Insertion	60	3.3	4.1	4.2	5.0	7.7	5.7	8.3	11.0	6.1
Carotid Endarterectomy	136	0.0	1.4	2.3	1.5	2.7	3.5	6.6	4.0	2.5
Hip Replacement/Reconstruction	122	3.3	3.3	1.7	6.6	6.5	2.8	7.4	8.7	3.3
Open Reduction of Hip Fracture	62	3.2	6.5	4.1	11.3	12.5	4.4	16.1	16.6	5.3
Prostatectomy	160	1.2	1.2	1.0	5.0	2.9	1.9	7.5	4.8	3.0
Cholecystectomy	95	4.2	3.0	2.2	7.4	5.6	3.1	8.4	7.5	3.0
Hysterectomy	56	1.8	1.2	2.4	5.4	2.4	3.6	5.4	3.6	4.4

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	6,429	8.0	8.0	0.6	12.0	12.2	0.7	14.7	15.5	0.7
CONDITIONS:										
Acute Myocardial Infarction	148	23.6	24.7	3.6	26.4	28.0	4.1	27.7	31.5	5.2
Congestive Heart Failure	234	23.1	17.4	3.6	33.8	26.7	4.6	38.9	34.2	4.0
Pneumonia/Influenza	133	12.8	19.8	5.1	22.6	26.2	5.3	29.3	31.5	4.1
Chronic Obstructive Pulmonary Disease	49	6.1	10.0	*	14.3	16.4	*	16.3	21.4	*
Transient Cerebral Ischemia	55	0.0	1.8	2.4	1.8	3.8	3.5	1.8	6.0	4.8
Stroke	172	21.5	24.6	4.3	27.9	31.2	5.4	33.1	36.0	5.3
Hip Fracture	141	7.1	6.7	2.3	11.3	11.9	2.8	11.3	15.3	4.5
Sepsis	48	22.9	37.4	*	33.3	45.6	*	39.6	52.7	*
PROCEDURES:										
Angioplasty	298	3.7	2.6	1.3	3.7	3.5	1.1	3.7	4.7	1.8
Coronary Artery Bypass Graft	309	9.1	4.5	3.1	10.7	6.7	2.9	11.7	8.0	2.9
Initial Pacemaker Insertion	45	4.4	4.0	*	6.7	7.8	*	13.3	11.1	*
Carotid Endarterectomy	132	0.8	1.4	*	0.8	2.6	*	0.8	3.8	*
Hip Replacement/Reconstruction	128	2.3	2.9	1.6	5.5	5.4	2.7	5.5	7.2	3.5
Open Reduction of Hip Fracture	59	11.9	6.4	5.2	16.9	11.8	5.8	16.9	15.2	6.2
Prostatectomy	170	1.2	1.2	1.2	4.1	2.9	1.8	5.9	4.8	2.2
Cholecystectomy	100	6.0	2.8	2.6	10.0	5.0	3.8	12.0	6.7	4.4
Hysterectomy	34	0.0	1.4	*	2.9	2.8	*	5.9	4.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

195.1

January 15, 1991

St. Vincent Hospital and Health Care Center

A Daughters of Charity Hospital

2001 West 86th Street
P.O. Box 40970
Indianapolis, Indiana
46240-0970
317-871-2345

Sandra Kappert
Health Care Financing Administration
Health Standards & Quality Bureau
2-D-2 Meadows East Bldg.
6325 Security Blvd.
Baltimore, MD 21207

Dear Mrs. Kappert:

Thank you for the opportunity to respond to the mortality data regarding the Medicare patients treated at St. Vincent Hospital and Health Care Center during 1989. We are pleased to note that all of our mortality rates dating back to 1987 fall within the predicted range of the 95% confidence level for each of the day categories. This was determined utilizing the Standard Deviation formula provided by the American Hospital Association.

In reviewing the St. Vincent mortality data, it is important to consider several significant factors which could impact the reported rates. St. Vincent Hospital and Health Care Center is a tertiary care, major referral center. Included among our services is a large oncology program which includes a comprehensive hospice facility that provides supportive care to patients and their families throughout the death process.

Additionally, the Indiana Heart Institute of St. Vincent Hospital is the largest cardiology/cardiovascular surgery program in the state of Indiana. As a major referral center for cardiac-related diagnoses, we receive a high percentage of complicated cases which impact the level of severity in this patient population. Correspondingly, the mortality rate for the cardiac conditions and cardiac procedures categories is impacted.

Again this year, it is appropriate to emphasize the limitation of evaluating mortality data in isolation. As HCFA has elected to profile mortality over 30 day, 90 day and 180 day intervals following admission, the possibility that factors outside the hospital may have contributed to an individual's death must be recognized. I am concerned that casual observers of the information will make simple "point-to-point" comparison of the predicted average rate to observed rate, rather than "point-to-range" comparisons of the observed rate to ranges incorporating the Standard Deviation.

At St. Vincent Hospital and Health Care Center, our comprehensive quality review program continuously monitors many factors related to quality and appropriateness of care provided to our patients. Mortality is only one such indicator of the quality of care provided and, unfortunately, in certain situations is an unavoidable outcome.

Thank you again for the opportunity to review and respond to this information.

Sincerely,

Bain J. Farris
President

BJF/fh

STARKE MEMORIAL HOSPITAL

102 East Culver Road
Knox, IN 46534

Medicare Provider Number: 150102

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	413	9.4	8.5	1.8	12.6	12.2	1.8	15.3	15.4	1.9
CONDITIONS:										
Acute Myocardial Infarction	25	40.0	36.0	*	44.0	39.7	*	44.0	44.0	*
Congestive Heart Failure	11	0.0	15.3	*	0.0	22.8	*	9.1	29.6	*
Pneumonia/Influenza	33	18.2	15.9	*	24.2	22.0	*	24.2	26.9	*
Chronic Obstructive Pulmonary Disease	11	9.1	6.6	*	18.2	12.4	*	18.2	17.8	*
Transient Cerebral Ischemia	6	0.0	1.6	*	0.0	4.0	*	0.0	6.6	*
Stroke	20	30.0	20.4	*	35.0	26.9	*	40.0	31.9	*
Hip Fracture	13	7.7	4.5	*	15.4	8.3	*	15.4	11.1	*
Sepsis	5	40.0	27.9	*	40.0	33.1	*	40.0	39.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	20.0	4.1	*	40.0	7.9	*	40.0	10.9	*
Open Reduction of Hip Fracture	7	0.0	4.2	*	0.0	8.0	*	0.0	10.7	*
Prostatectomy	15	0.0	0.8	*	0.0	1.8	*	6.7	3.0	*
Cholecystectomy	7	0.0	1.5	*	0.0	2.5	*	0.0	3.4	*
Hysterectomy	2	0.0	0.2	*	0.0	0.4	*	0.0	0.7	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	42
Occupancy Rate	38
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	30
Percent of Physicians Board Certified Specialists	60
Medical Residents/Interns	0
Registered Nurses	44
Licensed Practical Nurses	5

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

STARKE MEMORIAL HOSPITAL

Medicare Provider Number: 150102

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	437	9.8	8.7	1.9	14.2	13.0	1.9	16.9	16.7	1.8
CONDITIONS:										
Acute Myocardial Infarction	15	26.7	31.6	*	26.7	34.9	*	40.0	38.8	*
Congestive Heart Failure	26	23.1	15.4	*	34.6	23.8	*	34.6	30.7	*
Pneumonia/Influenza	44	13.6	13.9	*	18.2	19.1	*	22.7	23.4	*
Chronic Obstructive Pulmonary Disease	9	11.1	8.6	*	22.2	16.0	*	22.2	22.5	*
Transient Cerebral Ischemia	10	0.0	1.6	*	0.0	3.6	*	0.0	5.8	*
Stroke	17	29.4	21.5	*	29.4	27.3	*	29.4	32.1	*
Hip Fracture	14	0.0	5.0	*	7.1	10.1	*	7.1	14.0	*
Sepsis	3	33.3	27.6	*	33.3	32.3	*	33.3	37.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	2.4	*	0.0	5.8	*	0.0	9.5	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	7	0.0	2.6	*	14.3	5.2	*	14.3	7.1	*
Open Reduction of Hip Fracture	7	0.0	5.4	*	0.0	11.4	*	0.0	16.1	*
Prostatectomy	27	0.0	2.2	*	3.7	4.0	*	3.7	6.0	*
Cholecystectomy	4	0.0	2.0	*	0.0	3.3	*	0.0	4.0	*
Hysterectomy	3	0.0	0.3	*	0.0	0.5	*	0.0	0.8	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	441	10.9	9.1	2.5	15.2	13.5	2.6	18.4	17.0	2.4
CONDITIONS:										
Acute Myocardial Infarction	10	40.0	29.4	*	50.0	32.3	*	50.0	36.0	*
Congestive Heart Failure	22	18.2	14.8	*	27.3	23.1	*	40.9	30.1	*
Pneumonia/Influenza	30	20.0	14.9	*	30.0	20.9	*	33.3	25.8	*
Chronic Obstructive Pulmonary Disease	6	16.7	8.7	*	16.7	13.8	*	16.7	17.7	*
Transient Cerebral Ischemia	5	0.0	1.2	*	0.0	2.4	*	0.0	3.8	*
Stroke	31	9.7	18.6	*	16.1	24.4	*	19.4	29.2	*
Hip Fracture	8	25.0	4.7	*	25.0	8.5	*	25.0	11.3	*
Sepsis	3	33.3	40.7	*	33.3	52.1	*	66.7	61.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	1.8	*	0.0	3.5	*	0.0	5.2	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	0.0	2.1	*	0.0	4.0	*	0.0	5.4	*
Open Reduction of Hip Fracture	5	40.0	4.8	*	40.0	9.1	*	40.0	12.2	*
Prostatectomy	14	0.0	1.2	*	7.1	2.9	*	14.3	4.9	*
Cholecystectomy	5	0.0	1.6	*	0.0	2.8	*	0.0	3.5	*
Hysterectomy	5	0.0	1.7	*	0.0	3.2	*	0.0	4.7	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

TERRE HAUTE REGIONAL HOSPITAL

601 Hospital Lane
Terre Haute, IN 47802

Medicare Provider Number: 150046

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,518	9.2	8.7	0.9	14.5	13.5	1.1	18.1	17.4	1.3
CONDITIONS:										
Acute Myocardial Infarction	53	20.8	29.3	10.3	20.8	32.5	10.4	26.4	36.0	10.2
Congestive Heart Failure	78	21.8	14.8	5.4	37.2	22.9	8.7	42.3	29.8	8.2
Pneumonia/Influenza	51	11.8	15.8	6.4	15.7	21.8	9.2	19.6	26.4	11.0
Chronic Obstructive Pulmonary Disease	18	16.7	4.6	*	16.7	8.6	*	16.7	12.3	*
Transient Cerebral Ischemia	19	0.0	1.5	*	5.3	3.2	*	5.3	4.9	*
Stroke	39	23.1	23.7	*	33.3	30.0	*	35.9	34.5	*
Hip Fracture	31	9.7	8.6	*	16.1	14.8	*	22.6	18.6	*
Sepsis	10	30.0	24.7	*	30.0	31.3	*	30.0	37.0	*
PROCEDURES:										
Angioplasty	61	1.6	2.4	2.2	1.6	3.3	2.8	1.6	4.3	3.4
Coronary Artery Bypass Graft	37	2.7	5.0	*	8.1	7.1	*	8.1	8.4	*
Initial Pacemaker Insertion	12	0.0	4.6	*	0.0	8.0	*	0.0	10.7	*
Carotid Endarterectomy	4	0.0	1.0	*	0.0	1.6	*	0.0	2.3	*
Hip Replacement/Reconstruction	13	15.4	4.8	*	15.4	9.3	*	30.8	12.7	*
Open Reduction of Hip Fracture	18	5.6	8.1	*	16.7	15.0	*	16.7	19.4	*
Prostatectomy	42	2.4	1.1	*	11.9	2.8	*	11.9	4.8	*
Cholecystectomy	23	0.0	2.1	*	0.0	4.0	*	4.3	5.4	*
Hysterectomy	12	0.0	1.2	*	0.0	2.5	*	0.0	3.7	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	278
Occupancy Rate	47
Ownership/Control	Private, For Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	71
Percent of Physicians Board Certified Specialists	72
Medical Residents/Interns	0
Registered Nurses	257
Licensed Practical Nurses	50

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

TERRE HAUTE REGIONAL HOSPITAL

Medicare Provider Number: 150046

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	1,377	9.6	8.0	1.2	14.8	12.7	1.5	18.3	16.7	1.4
CONDITIONS:										
Acute Myocardial Infarction	50	22.0	29.5	*	28.0	32.6	*	36.0	36.1	*
Congestive Heart Failure	61	19.7	17.1	5.0	27.9	25.3	6.2	32.8	32.3	6.1
Pneumonia/Influenza	34	17.6	18.8	*	29.4	25.4	*	29.4	30.5	*
Chronic Obstructive Pulmonary Disease	13	15.4	5.5	*	23.1	11.6	*	23.1	17.2	*
Transient Cerebral Ischemia	15	0.0	1.9	*	0.0	3.9	*	0.0	6.1	*
Stroke	37	40.5	20.8	*	40.5	28.3	*	40.5	33.3	*
Hip Fracture	36	22.2	7.5	*	36.1	13.8	*	36.1	17.6	*
Sepsis	5	40.0	33.5	*	40.0	41.4	*	60.0	47.9	*
PROCEDURES:										
Angioplasty	41	0.0	3.0	*	0.0	4.5	*	2.4	5.9	*
Coronary Artery Bypass Graft	44	6.8	6.6	*	11.4	9.3	*	11.4	10.8	*
Initial Pacemaker Insertion	7	14.3	9.7	*	28.6	13.4	*	28.6	16.4	*
Carotid Endarterectomy	3	0.0	2.3	*	0.0	4.3	*	0.0	6.4	*
Hip Replacement/Reconstruction	19	26.3	6.7	*	31.6	13.2	*	36.8	17.5	*
Open Reduction of Hip Fracture	12	0.0	4.8	*	8.3	9.6	*	8.3	12.9	*
Prostatectomy	35	0.0	0.8	*	2.9	2.1	*	5.7	3.5	*
Cholecystectomy	25	0.0	2.2	*	4.0	3.7	*	4.0	4.9	*
Hysterectomy	8	0.0	0.6	*	0.0	1.3	*	0.0	1.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	1,351	8.8	8.4	0.9	13.4	12.9	1.3	17.0	16.6	1.8
CONDITIONS:										
Acute Myocardial Infarction	52	19.2	28.4	12.7	26.9	31.5	11.6	28.8	34.7	10.4
Congestive Heart Failure	57	14.0	15.4	5.5	22.8	22.9	6.2	29.8	29.4	6.2
Pneumonia/Influenza	51	15.7	17.5	5.8	19.6	23.3	6.8	27.5	28.0	6.4
Chronic Obstructive Pulmonary Disease	14	7.1	9.7	*	7.1	16.0	*	21.4	21.2	*
Transient Cerebral Ischemia	23	0.0	1.8	*	0.0	3.8	*	0.0	5.9	*
Stroke	30	33.3	26.9	*	46.7	34.2	*	53.3	39.4	*
Hip Fracture	30	23.3	7.4	*	30.0	12.7	*	36.7	15.9	*
Sepsis	8	12.5	31.5	*	12.5	39.5	*	25.0	46.2	*
PROCEDURES:										
Angioplasty	35	0.0	5.1	*	2.9	6.6	*	2.9	8.0	*
Coronary Artery Bypass Graft	36	8.3	5.9	*	8.3	7.8	*	8.3	8.9	*
Initial Pacemaker Insertion	7	0.0	2.2	*	0.0	4.3	*	0.0	6.4	*
Carotid Endarterectomy	7	0.0	1.7	*	14.3	3.3	*	14.3	5.0	*
Hip Replacement/Reconstruction	22	18.2	3.2	*	22.7	6.3	*	22.7	8.5	*
Open Reduction of Hip Fracture	15	26.7	8.0		33.3	13.7	*	40.0	17.1	*
Prostatectomy	37	0.0	1.0	*	2.7	2.4	*	2.7	4.1	*
Cholecystectomy	29	3.4	3.3	*	6.9	5.8	*	13.8	7.4	*
Hysterectomy	13	0.0	1.0	*	0.0	2.3	*	0.0	3.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

THE KINGS DAUGHTERS HOSPITAL

112 Presbyterian Ave
Madison, IN 47250

Medicare Provider Number: 150069

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,523	9.6	10.5	1.1	14.4	15.6	1.5	17.7	19.4	1.8
CONDITIONS:										
Acute Myocardial Infarction	84	41.7	24.9	7.9	44.0	28.0	7.8	46.4	31.3	7.7
Congestive Heart Failure	106	17.0	13.9	4.6	28.3	21.8	8.5	35.8	28.3	8.3
Pneumonia/Influenza	70	11.4	14.3	6.4	18.6	19.9	5.0	28.6	24.2	5.6
Chronic Obstructive Pulmonary Disease	26	3.8	3.5	*	3.8	6.8	*	7.7	10.0	*
Transient Cerebral Ischemia	39	0.0	1.7	*	0.0	3.9	*	5.1	6.3	*
Stroke	69	14.5	17.9	6.3	15.9	25.2	9.4	21.7	29.6	9.7
Hip Fracture	39	5.1	8.4	*	10.3	14.8	*	10.3	18.7	*
Sepsis	9	11.1	25.9	*	22.2	34.3	*	22.2	39.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	21	0.0	2.5	*	0.0	4.6	*	0.0	6.7	*
Carotid Endarterectomy	2	0.0	1.8	*	50.0	3.1	*	50.0	4.6	*
Hip Replacement/Reconstruction	12	0.0	7.0	*	8.3	13.2	*	8.3	17.2	*
Open Reduction of Hip Fracture	27	3.7	6.7	*	7.4	12.1	*	7.4	15.5	*
Prostatectomy	47	4.3	1.4	*	4.3	3.4	*	10.6	5.7	*
Cholecystectomy	32	0.0	2.5	*	6.3	4.2	*	12.5	5.4	*
Hysterectomy	17	0.0	0.5	*	5.9	1.2	*	5.9	1.9	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	142
Occupancy Rate	76
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	33
Percent of Physicians Board Certified Specialists	85
Medical Residents/Interns	0
Registered Nurses	97
Licensed Practical Nurses	35

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

THE KINGS DAUGHTERS HOSPITAL

Medicare Provider Number: 150069

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,562	11.4	10.3	1.0	16.5	15.5	1.1	20.1	19.3	1.1
CONDITIONS:										
Acute Myocardial Infarction	60	40.0	27.3	9.2	43.3	30.3	8.7	43.3	33.6	8.1
Congestive Heart Failure	133	24.8	15.6	5.0	30.8	24.3	4.9	37.6	31.3	4.8
Pneumonia/Influenza	99	22.2	17.3	5.1	31.3	23.7	6.9	37.4	28.7	8.4
Chronic Obstructive Pulmonary Disease	13	7.7	4.4	*	7.7	9.4	*	15.4	13.8	*
Transient Cerebral Ischemia	36	8.3	1.9	*	8.3	4.1	*	11.1	6.5	*
Stroke	84	20.2	19.1	4.6	27.4	26.8	5.4	29.8	31.7	5.2
Hip Fracture	44	9.1	6.4	*	13.6	11.8	*	18.2	15.2	*
Sepsis	11	0.0	19.2	*	18.2	27.5	*	18.2	32.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	9	11.1	6.2	*	11.1	9.0	*	11.1	11.7	*
Carotid Endarterectomy	4	25.0	1.5	*	25.0	3.1	*	25.0	4.5	*
Hip Replacement/Reconstruction	20	0.0	4.7	*	0.0	9.1	*	5.0	12.2	*
Open Reduction of Hip Fracture	30	13.3	5.8	*	20.0	11.1	*	23.3	14.7	*
Prostatectomy	32	0.0	0.8	*	3.1	2.0	*	15.6	3.3	*
Cholecystectomy	34	0.0	2.7	*	2.9	4.9	*	2.9	6.3	*
Hysterectomy	10	0.0	1.0	*	0.0	1.8	*	0.0	2.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,454	10.0	9.9	0.8	15.1	14.6	1.0	18.8	18.3	1.2
CONDITIONS:										
Acute Myocardial Infarction	59	30.5	29.5	9.2	33.9	33.0	8.9	39.0	36.6	8.1
Congestive Heart Failure	117	15.4	14.6	3.4	23.9	22.8	4.0	32.5	29.6	6.2
Pneumonia/Influenza	89	12.4	13.8	4.0	15.7	19.1	5.1	16.9	23.5	7.1
Chronic Obstructive Pulmonary Disease	20	35.0	6.6	*	40.0	11.5	*	40.0	15.1	*
Transient Cerebral Ischemia	26	0.0	1.5	*	3.8	3.3	*	7.7	5.2	*
Stroke	89	22.5	20.1	4.8	25.8	27.4	5.2	31.5	31.9	5.6
Hip Fracture	20	5.0	6.8	*	15.0	12.6	*	25.0	16.6	*
Sepsis	21	33.3	27.4	*	33.3	34.5	*	42.9	39.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	9	0.0	5.4	*	0.0	9.6	*	11.1	12.9	*
Carotid Endarterectomy	2	0.0	1.6	*	0.0	3.2	*	0.0	4.7	*
Hip Replacement/Reconstruction	9	11.1	5.6	*	22.2	10.5	*	44.4	13.5	*
Open Reduction of Hip Fracture	13	0.0	4.9	*	0.0	9.6	*	7.7	12.9	*
Prostatectomy	47	0.0	1.1	*	2.1	2.7	*	6.4	4.7	*
Cholecystectomy	28	0.0	1.8	*	0.0	3.6	*	0.0	5.0	*
Hysterectomy	15	0.0	0.3	*	0.0	0.6	*	0.0	0.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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the king's daughters' hospital

January 14, 1991

Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Mrs. Kappert,

In response to Dr. Gail Wilensky's letters of December 10, 1990 regarding the statistics of mortality information on Medicare patients treated in our Hospital in 1987, 1988, and 1989, these statistics have been carefully reviewed, specifically for the year 1989 in the categories of acute myocardial infarction and congestive heart failure.

Your sample data for the year 1989 for acute myocardial infarction indicate a 46.4% mortality rate. Your sample data would seem to be an inaccurate representation of the total population as our records indicate a total of 147 patients for the year 1989 and a mortality rate of 34%.

Also, your sample data for the year 1989 for congestive heart failure indicate a 35.8% mortality rate. Again, your sample data would seem to be an inaccurate representation of the total population of this category of patients as our records indicate a total of 223 patients for the year 1989 and a mortality rate of 34%.

Attached is a listing of all patients in the two categories for the year 1989 to document the origin of our statistics.

Sincerely,

Kevin Andrews
President
The King's Daughters' Hospital

KA/dlr

ONE KING'S DAUGHTERS' DRIVE, P.O. BOX 447, MADISON, INDIANA 47250 • 812/265-5211
"the Sun of righteousness arise with healing in his wings..." Malachi 4:2

THE METHODIST HOSPITAL OF GARY INC

600 Grant St
Gary, IN 46402

Medicare Provider Number: 150002

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,145	7.1	8.9	1.2	12.7	13.4	1.1	16.5	17.1	1.2
CONDITIONS:										
Acute Myocardial Infarction	23	21.7	30.5	*	30.4	33.9	*	34.8	37.5	*
Congestive Heart Failure	71	12.7	15.7	6.7	18.3	23.9	7.5	28.2	30.4	5.9
Pneumonia/Influenza	35	5.7	16.0	*	22.9	21.4	*	22.9	25.7	*
Chronic Obstructive Pulmonary Disease	26	3.8	11.5	*	7.7	18.7	*	19.2	24.9	*
Transient Cerebral Ischemia	23	0.0	1.5	*	0.0	3.2	*	0.0	5.0	*
Stroke	46	17.4	22.0	*	26.1	27.3	*	30.4	31.4	*
Hip Fracture	9	11.1	5.5	*	22.2	10.1	*	22.2	13.4	*
Sepsis	14	21.4	22.9	*	35.7	32.1	*	35.7	37.8	*
PROCEDURES:										
Angioplasty	1	0.0	8.9	*	0.0	9.7	*	0.0	10.8	*
Coronary Artery Bypass Graft	4	0.0	8.8	*	0.0	11.2	*	0.0	12.4	*
Initial Pacemaker Insertion	5	20.0	3.0	*	20.0	5.9	*	20.0	8.6	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	0.0	2.6	*	0.0	4.6	*	0.0	6.3	*
Open Reduction of Hip Fracture	1	0.0	3.7	*	0.0	6.7	*	0.0	8.7	*
Prostatectomy	40	0.0	1.8	*	0.0	4.6	*	5.0	7.8	*
Cholecystectomy	10	10.0	3.9	*	10.0	7.7	*	10.0	10.7	*
Hysterectomy	9	0.0	1.9	*	11.1	4.0	*	11.1	5.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	644
Occupancy Rate	64
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	423
Percent of Physicians Board Certified Specialists	51
Medical Residents/Interns	4
Registered Nurses	444
Licensed Practical Nurses	71

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

THE METHODIST HOSPITAL OF GARY INC

Medicare Provider Number: 150002

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,176	8.3	8.7	0.8	13.4	13.3	1.0	18.5	17.0	1.3
CONDITIONS:										
Acute Myocardial Infarction	19	10.5	33.1	*	15.8	36.4	*	15.8	40.1	*
Congestive Heart Failure	91	14.3	13.7	3.8	20.9	21.2	4.4	23.1	27.7	6.3
Pneumonia/Influenza	21	9.5	19.6	*	19.0	26.6	*	38.1	31.6	*
Chronic Obstructive Pulmonary Disease	6	0.0	14.5	*	0.0	22.3	*	0.0	28.6	*
Transient Cerebral Ischemia	24	0.0	2.0	*	8.3	4.4	*	8.3	6.9	*
Stroke	47	21.3	22.7	*	34.0	28.3	*	40.4	32.8	*
Hip Fracture	10	0.0	6.8	*	10.0	12.7	*	20.0	16.6	*
Sepsis	18	16.7	26.9	*	22.2	36.2	*	38.9	42.5	*
PROCEDURES:										
Angioplasty	3	0.0	6.1	*	0.0	6.9	*	0.0	8.1	*
Coronary Artery Bypass Graft	3	33.3	17.5	*	66.7	21.2	*	66.7	22.7	*
Initial Pacemaker Insertion	4	25.0	13.3	*	50.0	20.3	*	50.0	25.2	*
Carotid Endarterectomy	1	0.0	0.8	*	0.0	1.7	*	0.0	2.6	*
Hip Replacement/Reconstruction	6	0.0	3.4	*	0.0	6.5	*	16.7	8.6	*
Open Reduction of Hip Fracture	4	0.0	6.3	*	25.0	12.4	*	25.0	16.7	*
Prostatectomy	54	1.9	1.3	2.7	7.4	3.2	4.4	11.1	5.2	5.9
Cholecystectomy	7	14.3	3.3	*	28.6	6.6	*	28.6	9.2	*
Hysterectomy	6	0.0	0.9	*	16.7	1.8	*	16.7	2.8	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,098	7.5	9.2	1.2	13.8	13.8	1.5	17.2	17.5	1.2
CONDITIONS:										
Acute Myocardial Infarction	22	18.2	30.2	*	36.4	33.2	*	40.9	36.8	*
Congestive Heart Failure	72	6.9	16.2	6.7	23.6	24.5	5.5	31.9	31.0	5.5
Pneumonia/Influenza	28	14.3	20.1	*	25.0	26.9	*	28.6	32.1	*
Chronic Obstructive Pulmonary Disease	8	12.5	9.8	*	12.5	16.0	*	12.5	21.0	*
Transient Cerebral Ischemia	26	7.7	1.9	*	11.5	4.1	*	11.5	6.4	*
Stroke	45	26.7	24.9	*	31.1	30.9	*	31.1	35.6	*
Hip Fracture	8	0.0	6.2	*	12.5	10.7	*	25.0	13.7	*
Sepsis	15	13.3	34.5	*	26.7	43.6	*	46.7	50.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	9	0.0	6.5	*	0.0	7.8	*	11.1	8.8	*
Initial Pacemaker Insertion	6	16.7	4.2	*	33.3	7.5	*	33.3	10.6	*
Carotid Endarterectomy	1	0.0	1.9	*	0.0	3.8	*	0.0	5.6	*
Hip Replacement/Reconstruction	4	0.0	5.8	*	0.0	10.6	*	0.0	14.2	*
Open Reduction of Hip Fracture	3	0.0	5.5	*	0.0	10.0	*	33.3	12.9	*
Prostatectomy	50	0.0	1.1	*	2.0	2.5	*	6.0	4.1	*
Cholecystectomy	7	14.3	4.8	*	14.3	9.2	*	14.3	12.5	*
Hysterectomy	10	0.0	0.4	*	0.0	0.8	*	0.0	1.3	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

203.1

THE METHODIST HOSPITALS

Northlake Campus
Corporate Office
600 Grant St.
Gary, IN 46402
(219) 886-4000

Southlake Campus
8701 Broadway
Merrillville, IN 46410
(219) 738-5500

January 14, 1990

Re: Provider #15-0002
Provider #15-0132

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Ms. Kappert:

In response to the 1989 mortality data published by HCFA, the following comments are submitted:

Methodist Hospital, as a component of an integrated Quality Assurance program involving Medical Staff, nurses and other hospital personnel, continually monitors many factors which contribute to the quality of care and service provided at our institution. Part of the integrated program is a review of all the mortalities which occur in the hospital.

In analyzing mortalities for 1989, it was found that, as in the past, the leading causes of death include cancer, heart disease (chronic, severe) and pulmonary disease. Statistics also reveal that our Medicare patients in general, consist of people over the age of 66 who enter the hospital on an emergency basis. A significant number of these patients have co-morbid conditions which complicate the principal disease process and may contribute to death.

In addition, peer review of mortality cases by physicians has revealed no particular patterns over the years. Of course, our analysis of each mortality will continue as we search for ways to improve care for all of our patients. The statistics published by HCFA will be analyzed as part of our internal QA process.

We will continue to review and assess how we might help the community meet the needs of the chronically ill elderly, which is an ongoing challenge for communities around the nation.

Changes in the HCFA method of reporting mortalities, including the changes in the model and from calendar year to Federal fiscal year, complicated the hospital's process of evaluating the data provided.

While extending the time period over which mortality information is captured to 180 days makes it possible to analyze patterns of mortality over different time periods, interpretation is more difficult since factors outside the hospital must also be considered in contributing to death.

We continue to believe that the usefulness of mortality data as a single measure of the quality of care offered by any institution is questionable. The HCFA mortality information provided is useful only in raising questions for further study. It therefore, continues to be of limited use to the consumer. Methodist Hospital supports a more comprehensive approach to quality assurance which includes the use of multiple indicators to measure quality of care and service.

Thank you for the opportunity to provide these comments.

Sincerely,

Srbislav Brasovan, MD
President, Medical Staff

John H. Betjemann
Corporate President

TIPTON COUNTY MEMORIAL HOSPITAL

1000 South Main Street
Tipton, IN 46072

Medicare Provider Number: 150053

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	609	9.9	8.8	1.4	13.6	13.5	1.4	16.4	17.3	1.7
CONDITIONS:										
Acute Myocardial Infarction	8	25.0	26.5	*	25.0	29.0	*	25.0	32.1	*
Congestive Heart Failure	45	11.1	16.0	*	24.4	25.0	*	24.4	32.1	*
Pneumonia/Influenza	38	10.5	18.4	*	18.4	25.3	*	21.1	30.6	*
Chronic Obstructive Pulmonary Disease	7	14.3	6.3	*	14.3	11.8	*	14.3	17.3	*
Transient Cerebral Ischemia	13	0.0	1.7	*	0.0	4.0	*	7.7	6.4	*
Stroke	26	34.6	19.0	*	42.3	25.9	*	42.3	30.6	*
Hip Fracture	12	8.3	7.2	*	8.3	12.7	*	8.3	16.0	*
Sepsis	9	22.2	35.4	*	22.2	42.7	*	33.3	50.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	9	11.1	3.8	*	22.2	7.5	*	22.2	10.8	*
Carotid Endarterectomy	1	0.0	1.3	*	0.0	2.5	*	0.0	3.5	*
Hip Replacement/Reconstruction	4	0.0	4.8	*	0.0	9.7	*	0.0	13.4	*
Open Reduction of Hip Fracture	9	11.1	6.7	*	11.1	12.3	*	11.1	15.7	*
Prostatectomy	8	0.0	0.8	*	0.0	2.1	*	0.0	3.8	*
Cholecystectomy	16	0.0	2.1	*	0.0	3.8	*	6.3	5.1	*
Hysterectomy	2	0.0	0.3	*	0.0	0.7	*	0.0	0.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	136
Occupancy Rate	27
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	28
Percent of Physicians Board Certified Specialists	54
Medical Residents/Interns	0
Registered Nurses	81
Licensed Practical Nurses	2

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

TIPTON COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 150053

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	550	7.1	8.2	1.4	9.8	12.4	1.8	13.3	15.9	2.1
CONDITIONS:										
Acute Myocardial Infarction	16	37.5	29.1	*	43.8	32.8	*	43.8	36.7	*
Congestive Heart Failure	31	19.4	18.1	*	29.0	27.4	*	38.7	34.9	*
Pneumonia/Influenza	31	12.9	19.6	*	19.4	26.7	*	22.6	32.0	*
Chronic Obstructive Pulmonary Disease	10	10.0	9.3	*	10.0	15.4	*	10.0	20.6	*
Transient Cerebral Ischemia	8	0.0	1.6	*	0.0	3.4	*	0.0	5.4	*
Stroke	16	25.0	19.4	*	25.0	24.4	*	31.3	28.7	*
Hip Fracture	11	9.1	6.3	*	18.2	11.6	*	18.2	15.0	*
Sepsis	11	0.0	25.0	*	0.0	31.9	*	0.0	37.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	8	0.0	6.1	*	12.5	11.6	*	12.5	15.3	*
Prostatectomy	12	0.0	0.7	*	0.0	1.8	*	0.0	3.1	*
Cholecystectomy	19	0.0	2.2	*	0.0	4.3	*	0.0	5.9	*
Hysterectomy	5	0.0	0.1	*	0.0	0.3	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	590	8.5	8.2	1.6	13.1	12.7	1.8	16.6	16.5	1.5
CONDITIONS:										
Acute Myocardial Infarction	16	43.8	31.5	*	50.0	36.0	*	56.3	40.5	*
Congestive Heart Failure	34	11.8	15.2	*	23.5	22.7	*	23.5	29.2	*
Pneumonia/Influenza	19	10.5	16.6	*	15.8	22.6	*	15.8	27.2	*
Chronic Obstructive Pulmonary Disease	14	21.4	7.7	*	28.6	13.5	*	28.6	18.1	*
Transient Cerebral Ischemia	9	11.1	2.0	*	11.1	4.5	*	11.1	7.2	*
Stroke	20	25.0	22.3	*	30.0	28.5	*	40.0	33.2	*
Hip Fracture	14	14.3	7.0	*	21.4	12.4	*	21.4	15.8	*
Sepsis	5	40.0	38.4	*	40.0	49.6	*	60.0	57.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	5.3	*	0.0	10.4	*	0.0	14.6	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	20.0	7.7	*	20.0	13.9	*	20.0	17.6	*
Open Reduction of Hip Fracture	7	0.0	4.2	*	14.3	8.4	*	14.3	11.5	*
Prostatectomy	15	0.0	1.4	*	0.0	3.6	*	0.0	6.1	*
Cholecystectomy	13	0.0	3.0	*	7.7	5.5	*	7.7	7.1	*
Hysterectomy	2	0.0	0.3	*	0.0	0.5	*	0.0	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

UNION CITY MEMORIAL HOSPITAL

900 North Columbia St
Union City, IN 47390

Medicare Provider Number: 150085

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	153	11.8	11.1	3.9	17.6	15.8	3.8	20.3	19.8	3.8
CONDITIONS:										
Acute Myocardial Infarction	6	33.3	34.6	*	33.3	37.8	*	33.3	41.5	*
Congestive Heart Failure	9	22.2	19.3	*	44.4	29.4	*	55.6	37.0	*
Pneumonia/Influenza	21	9.5	16.9	*	14.3	23.2	*	19.0	28.1	*
Chronic Obstructive Pulmonary Disease	3	33.3	6.2	*	33.3	12.5	*	33.3	18.0	*
Transient Cerebral Ischemia	2	0.0	2.6	*	0.0	5.8	*	0.0	9.3	*
Stroke	6	33.3	21.7	*	33.3	27.7	*	33.3	32.2	*
Hip Fracture	0									
Sepsis	2	0.0	16.9	*	0.0	20.7	*	0.0	24.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	26
Occupancy Rate	19
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	(Not Available)
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	(Not Available)
Registered Nurses	(Not Available)
Licensed Practical Nurses	(Not Available)

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

UNION CITY MEMORIAL HOSPITAL

Medicare Provider Number: 150085

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	163	14.7	10.7	3.2	19.6	15.3	3.5	23.9	19.1	4.0
CONDITIONS:										
Acute Myocardial Infarction	8	62.5	34.9	*	62.5	38.6	*	62.5	42.6	*
Congestive Heart Failure	11	27.3	19.3	*	36.4	29.3	*	36.4	37.1	*
Pneumonia/Influenza	18	11.1	15.7	*	16.7	21.0	*	27.8	25.4	*
Chronic Obstructive Pulmonary Disease	3	0.0	11.3	*	0.0	23.4	*	33.3	33.9	*
Transient Cerebral Ischemia	1	0.0	1.7	*	100.0	3.3	*	100.0	5.0	*
Stroke	11	27.3	24.8	*	27.3	31.6	*	27.3	36.8	*
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	1	0.0	1.0	*	0.0	1.9	*	0.0	2.7	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	163	12.3	13.4	2.9	17.8	18.6	3.1	22.7	22.9	3.4
CONDITIONS:										
Acute Myocardial Infarction	8	62.5	43.6	*	62.5	47.7	*	62.5	51.8	*
Congestive Heart Failure	10	20.0	16.4	*	20.0	24.6	*	40.0	31.6	*
Pneumonia/Influenza	25	20.0	18.7	*	24.0	24.7	*	28.0	29.6	*
Chronic Obstructive Pulmonary Disease	6	0.0	5.0	*	0.0	9.8	*	0.0	14.0	*
Transient Cerebral Ischemia	4	0.0	2.0	*	0.0	4.3	*	0.0	6.8	*
Stroke	10	10.0	22.6	*	20.0	28.8	*	20.0	33.7	*
Hip Fracture	0									
Sepsis	4	0.0	27.4	*	25.0	35.1	*	25.0	42.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

UNION HOSPITAL INC

1606 N 7th St
Terre Haute, IN 47801

Medicare Provider Number: 150023

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,077	9.4	9.2	0.6	14.7	14.0	0.7	18.1	17.8	0.7
CONDITIONS:										
Acute Myocardial Infarction	126	25.4	23.0	4.7	32.5	26.3	5.9	34.1	29.5	5.9
Congestive Heart Failure	201	16.9	14.7	3.9	24.4	22.6	3.8	29.4	29.1	3.3
Pneumonia/Influenza	149	11.4	16.4	4.7	19.5	22.1	5.6	21.5	26.7	4.9
Chronic Obstructive Pulmonary Disease	44	4.5	6.5	*	9.1	11.5	*	15.9	16.2	*
Transient Cerebral Ischemia	51	2.0	2.3	2.6	2.0	5.2	4.1	2.0	8.1	5.6
Stroke	124	21.0	21.4	4.2	34.7	28.0	5.2	37.1	32.4	4.8
Hip Fracture	119	6.7	7.3	3.1	10.9	13.2	4.8	16.8	17.1	3.5
Sepsis	72	22.2	24.5	7.8	34.7	31.4	6.2	37.5	37.0	6.9
PROCEDURES:										
Angioplasty	53	7.5	4.7	4.0	7.5	5.6	4.6	7.5	6.8	5.1
Coronary Artery Bypass Graft	42	21.4	5.1	*	21.4	7.5	*	21.4	9.0	*
Initial Pacemaker Insertion	32	9.4	2.9	*	12.5	5.3	*	15.6	7.6	*
Carotid Endarterectomy	21	4.8	2.0	*	9.5	3.9	*	9.5	5.7	*
Hip Replacement/Reconstruction	51	5.9	5.2	3.1	5.9	9.8	5.1	7.8	13.2	6.7
Open Reduction of Hip Fracture	62	4.8	7.3	4.7	11.3	13.4	5.0	17.7	17.4	4.9
Prostatectomy	109	0.0	0.8	1.1	0.9	1.9	1.5	0.9	3.2	2.6
Cholecystectomy	83	4.8	3.2	2.7	7.2	5.4	3.3	7.2	6.7	3.6
Hysterectomy	33	0.0	0.5	*	0.0	1.1	*	0.0	1.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	253
Occupancy Rate	76
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	89
Percent of Physicians Board Certified Specialists	76
Medical Residents/Interns	12
Registered Nurses	402
Licensed Practical Nurses	73

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	Yes

**** Not used in calculating hospital mortality rates.**

UNION HOSPITAL INC

Medicare Provider Number: 150023

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,103	11.1	9.1	0.7	16.9	14.0	1.0	20.1	17.8	0.9
CONDITIONS:										
Acute Myocardial Infarction	124	35.5	26.8	6.7	39.5	30.3	6.2	40.3	33.9	6.0
Congestive Heart Failure	203	16.7	15.9	4.4	25.6	24.1	3.3	30.5	31.0	3.5
Pneumonia/Influenza	145	17.9	15.4	3.8	20.7	20.7	3.4	24.1	24.9	3.7
Chronic Obstructive Pulmonary Disease	27	7.4	7.4	*	18.5	13.9	*	22.2	19.2	*
Transient Cerebral Ischemia	52	3.8	2.4	2.4	7.7	5.1	4.2	11.5	8.0	6.2
Stroke	111	20.7	22.1	4.7	31.5	28.9	6.8	38.7	33.6	8.0
Hip Fracture	105	8.6	6.6	3.3	16.2	12.0	6.4	20.0	15.5	7.9
Sepsis	41	31.7	25.4	*	41.5	31.9	*	48.8	37.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	1	0.0	1.5	*	0.0	2.2	*	0.0	2.9	*
Initial Pacemaker Insertion	22	0.0	3.3	*	9.1	6.3	*	9.1	9.0	*
Carotid Endarterectomy	11	9.1	1.5	*	9.1	2.8	*	9.1	4.1	*
Hip Replacement/Reconstruction	50	4.0	4.4	*	10.0	8.5	*	10.0	11.2	*
Open Reduction of Hip Fracture	44	6.8	6.5	*	18.2	12.1	*	25.0	15.9	*
Prostatectomy	101	1.0	1.1	1.1	3.0	2.8	1.7	4.0	4.7	2.3
Cholecystectomy	81	6.2	3.3	3.5	13.6	5.9	4.0	14.8	7.7	4.7
Hysterectomy	27	0.0	0.4	*	3.7	0.7	*	3.7	1.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,123	9.6	9.5	0.7	15.5	14.4	1.1	19.1	18.2	1.3
CONDITIONS:										
Acute Myocardial Infarction	142	28.9	28.7	3.9	33.8	32.2	4.3	37.3	35.7	4.3
Congestive Heart Failure	193	20.2	16.5	3.9	31.1	24.7	5.6	38.3	31.5	5.7
Pneumonia/Influenza	122	14.8	18.0	4.5	21.3	24.2	5.3	24.6	29.0	4.9
Chronic Obstructive Pulmonary Disease	42	11.9	13.4	*	26.2	21.1	*	31.0	26.8	*
Transient Cerebral Ischemia	56	5.4	2.0	3.5	5.4	4.4	3.0	8.9	7.0	4.2
Stroke	135	19.3	22.4	5.5	25.9	29.3	5.4	31.9	33.9	5.1
Hip Fracture	100	8.0	8.2	3.0	14.0	14.5	3.6	20.0	18.5	4.2
Sepsis	39	12.8	26.5	*	28.2	34.8	*	28.2	41.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	27	3.7	3.9	*	3.7	7.3	*	18.5	10.2	*
Carotid Endarterectomy	20	5.0	1.8	*	10.0	3.5	*	15.0	5.1	*
Hip Replacement/Reconstruction	41	4.9	4.8	*	14.6	8.9	*	19.5	11.8	*
Open Reduction of Hip Fracture	52	7.7	7.7	4.1	9.6	14.4	7.0	15.4	18.7	7.5
Prostatectomy	125	2.4	0.9	1.2	4.0	2.1	1.8	4.8	3.5	2.3
Cholecystectomy	83	3.6	2.5	1.9	4.8	4.5	2.3	4.8	6.0	2.9
Hysterectomy	34	2.9	0.8	*	5.9	1.8	*	8.8	2.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

VERMILLION COUNTY HOSPITAL

801 South Main Street
Clinton, IN 47842

Medicare Provider Number: 150060

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	708	12.4	11.1	1.6	16.4	16.3	1.5	19.1	20.4	2.0
CONDITIONS:										
Acute Myocardial Infarction	35	25.7	25.1	*	25.7	28.9	*	25.7	32.2	*
Congestive Heart Failure	43	14.0	13.5	*	23.3	21.2	*	32.6	27.7	*
Pneumonia/Influenza	58	19.0	15.7	7.5	27.6	21.6	7.0	27.6	26.1	5.9
Chronic Obstructive Pulmonary Disease	4	0.0	4.4	*	0.0	10.2	*	0.0	15.7	*
Transient Cerebral Ischemia	5	0.0	2.2	*	20.0	4.6	*	20.0	7.4	*
Stroke	28	32.1	20.3	*	39.3	27.6	*	39.3	32.3	*
Hip Fracture	33	12.1	6.7	*	15.2	11.8	*	18.2	15.2	*
Sepsis	22	18.2	29.5	*	27.3	35.9	*	31.8	41.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	14	14.3	6.0	*	21.4	11.8	*	21.4	16.0	*
Open Reduction of Hip Fracture	18	11.1	6.0	*	11.1	10.8	*	16.7	13.9	*
Prostatectomy	20	0.0	1.4	*	0.0	3.4	*	0.0	5.7	*
Cholecystectomy	17	0.0	2.4	*	5.9	4.1	*	5.9	5.5	*
Hysterectomy	5	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	56
Occupancy Rate	59
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	15
Percent of Physicians Board Certified Specialists	60
Medical Residents/Interns	0
Registered Nurses	31
Licensed Practical Nurses	11

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

VERMILLION COUNTY HOSPITAL

Medicare Provider Number: 150060

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	634	12.8	11.8	1.7	18.1	17.1	2.0	22.1	21.2	1.8
CONDITIONS:										
Acute Myocardial Infarction	33	18.2	25.5	*	24.2	28.6	*	24.2	32.1	*
Congestive Heart Failure	43	18.6	16.6	*	25.6	25.0	*	27.9	31.7	*
Pneumonia/Influenza	58	13.8	15.7	6.5	20.7	21.4	7.3	25.9	26.0	5.8
Chronic Obstructive Pulmonary Disease	3	0.0	2.9	*	0.0	5.6	*	0.0	8.1	*
Transient Cerebral Ischemia	8	0.0	1.9	*	0.0	4.2	*	0.0	6.6	*
Stroke	41	24.4	20.0	*	34.1	26.5	*	39.0	31.1	*
Hip Fracture	17	11.8	9.1	*	29.4	16.5	*	35.3	20.6	*
Sepsis	12	25.0	41.8	*	33.3	49.1	*	41.7	56.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	7	0.0	7.8	*	14.3	15.1	*	14.3	19.3	*
Open Reduction of Hip Fracture	7	14.3	7.0	*	28.6	13.2	*	42.9	17.1	*
Prostatectomy	13	0.0	1.2	*	0.0	2.9	*	0.0	4.8	*
Cholecystectomy	6	0.0	1.6	*	16.7	3.6	*	16.7	5.7	*
Hysterectomy	8	0.0	0.9	*	0.0	2.0	*	0.0	3.0	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	655	12.4	10.3	1.5	19.1	15.2	2.3	22.6	19.2	2.3
CONDITIONS:										
Acute Myocardial Infarction	39	17.9	29.4	*	30.8	32.8	*	38.5	36.6	*
Congestive Heart Failure	50	12.0	14.8	*	32.0	22.7	*	36.0	29.3	*
Pneumonia/Influenza	43	16.3	15.3	*	18.6	21.2	*	18.6	26.1	*
Chronic Obstructive Pulmonary Disease	11	18.2	10.4	*	27.3	17.6	*	36.4	23.3	*
Transient Cerebral Ischemia	8	0.0	1.6	*	0.0	3.3	*	0.0	5.1	*
Stroke	39	30.8	20.1	*	38.5	26.2	*	41.0	30.6	*
Hip Fracture	22	0.0	7.0	*	18.2	13.0	*	18.2	17.2	*
Sepsis	7	14.3	30.2	*	28.6	37.5	*	42.9	44.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	3.2	*	0.0	6.6	*	50.0	10.0	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	7	0.0	6.3	*	14.3	11.6	*	14.3	15.1	*
Open Reduction of Hip Fracture	13	0.0	6.3	*	23.1	12.7	*	23.1	17.5	*
Prostatectomy	23	0.0	1.2	*	0.0	3.1	*	4.3	5.1	*
Cholecystectomy	6	0.0	3.9	*	0.0	6.3	*	16.7	7.5	*
Hysterectomy	5	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

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VERMILLION COUNTY HOSPITAL
801 South Main St., Clinton, IN 47842
317-832-2451

Dedicated to
Service Since 1924

January 2, 1990 Medicare Provider #: 15-0060

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Health Care Financing Administration:

The mortality rates generated and published for public review is an inappropriate method to attempt to educate the public-consumer in quality of care reviews for hospitals. There are many technical issues far too complicated to summarize in an easy-to-read consumer handbook on hospitals. Some of these items I have concern about are as follows:

1) Too small sample sizes; e.g. at Vermillion County Hospital only 4 or 5 patients are in a category and this is too small to analyze!

2) Predicting death rates; This appears similar to voodoo medicine techniques! I don't think predicting patient death rates is realistic at all!

3) Deaths after hospitalization; The data includes deaths due to accidents and deaths at other hospitals which seems ridiculous to report these deaths in our mortality data!

There are good reasons to inform the public about quality of health care rendered by hospitals, but this technical HCFA approach fails to accomplish this and reviews by the Joint Commission on Accreditation of Healthcare Organizations and State Health Departments are much more appropriate methods for consumers to rely on than this statistical technical approach.

Sincerely,

Don Brawley
Administrator

DB/vn

WABASH COUNTY HOSPITAL

670 NE Street P O Box548
Wabash, IN 46992

Medicare Provider Number: 150105

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	545	10.8	11.2	1.4	16.1	16.1	1.7	20.2	20.1	1.7
CONDITIONS:										
Acute Myocardial Infarction	23	26.1	39.5	*	30.4	42.9	*	34.8	47.1	*
Congestive Heart Failure	50	16.0	14.1	*	28.0	21.6	*	36.0	28.1	*
Pneumonia/Influenza	60	11.7	16.2	5.9	13.3	22.0	7.2	18.3	26.6	7.9
Chronic Obstructive Pulmonary Disease	11	0.0	5.5	*	9.1	9.6	*	9.1	13.4	*
Transient Cerebral Ischemia	3	0.0	2.5	*	33.3	5.5	*	33.3	8.7	*
Stroke	24	37.5	25.4	*	54.2	31.4	*	62.5	36.1	*
Hip Fracture	24	8.3	6.7	*	12.5	11.9	*	12.5	15.3	*
Sepsis	4	0.0	32.1	*	0.0	38.6	*	25.0	44.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	8	0.0	6.0	*	0.0	10.7	*	0.0	13.7	*
Open Reduction of Hip Fracture	14	14.3	5.4	*	21.4	10.3	*	21.4	13.6	*
Prostatectomy	16	0.0	0.7	*	0.0	1.7	*	0.0	3.0	*
Cholecystectomy	9	0.0	1.1	*	11.1	1.9	*	11.1	2.5	*
Hysterectomy	5	0.0	0.7	*	0.0	1.6	*	0.0	2.5	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	92
Occupancy Rate	41
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	30
Percent of Physicians Board Certified Specialists	73
Medical Residents/Interns	0
Registered Nurses	64
Licensed Practical Nurses	15

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

WABASH COUNTY HOSPITAL

Medicare Provider Number: 150105

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	629	13.5	11.5	1.7	17.6	16.5	1.7	21.3	20.5	1.7
CONDITIONS:										
Acute Myocardial Infarction	40	25.0	35.6	*	25.0	39.0	*	27.5	42.9	*
Congestive Heart Failure	47	17.0	14.3	*	25.5	21.4	*	29.8	27.5	*
Pneumonia/Influenza	54	18.5	14.5	6.6	22.2	19.6	6.9	25.9	23.9	6.3
Chronic Obstructive Pulmonary Disease	5	0.0	14.4	*	20.0	24.1	*	20.0	31.0	*
Transient Cerebral Ischemia	8	12.5	2.2	*	12.5	5.0	*	37.5	8.2	*
Stroke	36	36.1	20.5	*	36.1	26.4	*	38.9	31.0	*
Hip Fracture	28	10.7	6.1	*	17.9	11.1	*	25.0	14.5	*
Sepsis	5	60.0	29.5	*	80.0	36.6	*	80.0	42.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	9	0.0	4.6	*	11.1	8.5	*	33.3	11.0	*
Open Reduction of Hip Fracture	16	12.5	5.6	*	18.8	10.8	*	18.8	14.4	*
Prostatectomy	2	50.0	2.2	*	50.0	5.7	*	50.0	9.7	*
Cholecystectomy	12	0.0	1.0	*	0.0	1.8	*	0.0	2.4	*
Hysterectomy	2	0.0	0.3	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	583	12.3	10.7	2.2	16.6	15.4	2.3	20.4	19.2	2.3
CONDITIONS:										
Acute Myocardial Infarction	27	44.4	34.5	*	44.4	38.2	*	44.4	42.4	*
Congestive Heart Failure	28	25.0	19.0	*	32.1	28.1	*	35.7	35.0	*
Pneumonia/Influenza	63	15.9	14.6	5.0	19.0	20.0	5.1	22.2	24.5	5.9
Chronic Obstructive Pulmonary Disease	6	16.7	7.8	*	16.7	13.4	*	16.7	19.4	*
Transient Cerebral Ischemia	2	0.0	1.9	*	0.0	4.1	*	0.0	6.7	*
Stroke	26	15.4	19.6	*	34.6	26.1	*	42.3	30.9	*
Hip Fracture	17	11.8	5.4	*	11.8	10.5	*	11.8	14.1	*
Sepsis	4	50.0	24.4	*	75.0	31.0	*	75.0	35.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	0.0	4.5	*	0.0	8.8	*	0.0	12.0	*
Open Reduction of Hip Fracture	11	9.1	5.1	*	9.1	10.3	*	9.1	14.2	*
Prostatectomy	3	0.0	0.5	*	0.0	1.1	*	0.0	1.8	*
Cholecystectomy	13	7.7	2.0	*	7.7	4.3	*	7.7	6.0	*
Hysterectomy	5	0.0	0.9	*	0.0	2.0	*	0.0	3.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

WARRICK HOSPITAL INC

1116 Millis Avenue
Boonville, IN 47601

Medicare Provider Number: 150130

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	408	10.5	12.6	2.4	15.7	18.2	2.6	19.4	22.4	3.2
CONDITIONS:										
Acute Myocardial Infarction	16	31.3	32.9	*	37.5	36.4	*	43.8	39.8	*
Congestive Heart Failure	35	17.1	16.7	*	22.9	25.5	*	28.6	32.5	*
Pneumonia/Influenza	22	9.1	19.3	*	13.6	25.7	*	27.3	30.8	*
Chronic Obstructive Pulmonary Disease	6	0.0	5.5	*	0.0	9.6	*	0.0	13.3	*
Transient Cerebral Ischemia	8	0.0	2.2	*	0.0	5.0	*	0.0	8.0	*
Stroke	19	31.6	23.6	*	31.6	30.6	*	31.6	35.6	*
Hip Fracture	3	0.0	5.7	*	0.0	10.3	*	0.0	13.4	*
Sepsis	15	6.7	23.2	*	20.0	31.5	*	26.7	36.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	3.2	*	0.0	6.5	*	0.0	9.0	*
Open Reduction of Hip Fracture	2	0.0	5.9	*	0.0	11.1	*	0.0	14.4	*
Prostatectomy	6	0.0	1.8	*	0.0	4.3	*	0.0	7.1	*
Cholecystectomy	7	0.0	6.8	*	14.3	13.0	*	14.3	16.8	*
Hysterectomy	3	0.0	0.5	*	0.0	1.0	*	0.0	1.3	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	41
Occupancy Rate	51
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	16
Percent of Physicians Board Certified Specialists	56
Medical Residents/Interns	0
Registered Nurses	32
Licensed Practical Nurses	15

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

WARRICK HOSPITAL INC

Medicare Provider Number: 150130

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	355	12.4	11.6	2.1	18.0	17.2	2.3	22.3	21.6	2.8
CONDITIONS:										
Acute Myocardial Infarction	13	15.4	29.9	*	15.4	33.3	*	15.4	37.0	*
Congestive Heart Failure	17	11.8	16.7	*	23.5	24.9	*	35.3	31.5	*
Pneumonia/Influenza	27	25.9	20.2	*	33.3	26.8	*	33.3	31.9	*
Chronic Obstructive Pulmonary Disease	6	16.7	8.6	*	16.7	16.7	*	16.7	23.4	*
Transient Cerebral Ischemia	4	0.0	1.8	*	0.0	3.6	*	0.0	5.5	*
Stroke	17	41.2	26.0	*	52.9	33.2	*	52.9	38.6	*
Hip Fracture	11	0.0	8.4	*	0.0	14.2	*	9.1	17.7	*
Sepsis	11	27.3	28.5	*	36.4	37.1	*	36.4	43.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	1	0.0	2.8	*	0.0	6.5	*	0.0	10.2	*
Hip Replacement/Reconstruction	2	0.0	6.4	*	0.0	11.2	*	0.0	13.8	*
Open Reduction of Hip Fracture	7	0.0	7.5	*	0.0	13.6	*	14.3	17.3	*
Prostatectomy	5	0.0	1.4	*	20.0	3.6	*	20.0	6.5	*
Cholecystectomy	10	0.0	5.5	*	10.0	10.7	*	10.0	15.1	*
Hysterectomy	3	0.0	0.3	*	0.0	0.5	*	0.0	0.7	*

***The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	328	11.9	12.6	2.3	16.2	18.2	3.1	21.3	22.8	3.0
CONDITIONS:										
Acute Myocardial Infarction	10	30.0	32.6	*	30.0	36.5	*	40.0	40.0	*
Congestive Heart Failure	30	13.3	16.8	*	23.3	25.0	*	30.0	32.0	*
Pneumonia/Influenza	25	20.0	19.6	*	24.0	26.5	*	32.0	32.1	*
Chronic Obstructive Pulmonary Disease	8	12.5	7.4	*	12.5	15.7	*	25.0	22.8	*
Transient Cerebral Ischemia	3	0.0	2.3	*	0.0	5.0	*	0.0	7.9	*
Stroke	24	16.7	23.6	*	25.0	30.0	*	29.2	35.1	*
Hip Fracture	6	16.7	9.9	*	50.0	17.1	*	50.0	21.7	*
Sepsis	8	25.0	31.4	*	37.5	40.8	*	37.5	47.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	5.5	*	0.0	11.7	*	0.0	16.5	*
Open Reduction of Hip Fracture	4	25.0	9.6	*	50.0	16.4	*	50.0	20.2	*
Prostatectomy	5	0.0	1.5	*	0.0	3.5	*	0.0	5.6	*
Cholecystectomy	14	7.1	5.1	*	7.1	8.4	*	7.1	10.1	*
Hysterectomy	3	0.0	1.2	*	0.0	3.1	*	0.0	5.6	*

***The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

WASHINGTON COUNTY MEMORIAL HOSPITAL

911 N Shelby St
Salem, IN 47167

Medicare Provider Number: 150098

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	445	9.9	8.4	1.9	14.4	12.6	2.4	17.1	16.0	2.7
CONDITIONS:										
Acute Myocardial Infarction	17	17.6	28.4	*	23.5	32.0	*	23.5	35.7	*
Congestive Heart Failure	28	25.0	16.0	*	35.7	23.9	*	42.9	30.4	*
Pneumonia/Influenza	28	10.7	16.3	*	25.0	23.0	*	25.0	28.1	*
Chronic Obstructive Pulmonary Disease	5	20.0	13.6	*	20.0	20.7	*	20.0	26.4	*
Transient Cerebral Ischemia	9	0.0	1.4	*	0.0	3.0	*	0.0	4.7	*
Stroke	19	15.8	17.9	*	21.1	24.5	*	21.1	29.0	*
Hip Fracture	16	6.3	5.2	*	12.5	9.6	*	12.5	12.6	*
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	4.3	*	0.0	9.1	*	0.0	14.6	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	3.6	*	0.0	7.0	*	0.0	9.5	*
Open Reduction of Hip Fracture	11	0.0	4.9	*	9.1	9.4	*	9.1	12.5	*
Prostatectomy	8	0.0	0.8	*	0.0	1.8	*	0.0	3.0	*
Cholecystectomy	4	25.0	6.3	*	25.0	13.0	*	25.0	18.3	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	70
Occupancy Rate	49
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	11
Percent of Physicians Board Certified Specialists	55
Medical Residents/Interns	0
Registered Nurses	25
Licensed Practical Nurses	18

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

WASHINGTON COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 150098

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	399	10.8	10.1	2.1	16.3	14.3	2.5	19.3	17.8	2.1
CONDITIONS:										
Acute Myocardial Infarction	20	20.0	29.1	*	20.0	32.1	*	20.0	35.8	*
Congestive Heart Failure	34	17.6	14.5	*	29.4	21.8	*	38.2	28.3	*
Pneumonia/Influenza	41	12.2	17.5	*	24.4	23.8	*	31.7	28.9	*
Chronic Obstructive Pulmonary Disease	9	0.0	8.8	*	0.0	14.2	*	0.0	19.0	*
Transient Cerebral Ischemia	1	0.0	0.7	*	0.0	1.3	*	0.0	1.9	*
Stroke	24	12.5	19.8	*	33.3	26.2	*	37.5	30.9	*
Hip Fracture	12	8.3	3.7	*	8.3	7.0	*	16.7	9.3	*
Sepsis	1	0.0	16.4	*	0.0	25.2	*	0.0	31.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	8	0.0	1.3	*	0.0	2.6	*	0.0	4.0	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	7	14.3	3.7	*	14.3	7.3	*	14.3	9.6	*
Open Reduction of Hip Fracture	4	0.0	3.0	*	0.0	6.0	*	25.0	8.2	*
Prostatectomy	7	0.0	0.5	*	0.0	1.3	*	0.0	2.1	*
Cholecystectomy	1	0.0	2.1	*	0.0	3.5	*	0.0	4.4	*
Hysterectomy	1	0.0	0.0	*	0.0	0.1	*	0.0	0.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	423	16.1	10.9	2.1	22.0	15.4	2.8	24.8	18.9	2.6
CONDITIONS:										
Acute Myocardial Infarction	23	56.5	34.2	*	56.5	37.6	*	56.5	41.4	*
Congestive Heart Failure	19	15.8	16.4	*	31.6	25.0	*	36.8	32.2	*
Pneumonia/Influenza	46	19.6	17.6	*	26.1	24.4	*	28.3	29.7	*
Chronic Obstructive Pulmonary Disease	10	20.0	8.5	*	40.0	14.3	*	50.0	19.1	*
Transient Cerebral Ischemia	8	12.5	2.3	*	12.5	5.2	*	12.5	8.3	*
Stroke	33	42.4	23.9	*	51.5	31.5	*	57.6	36.6	*
Hip Fracture	14	7.1	6.8	*	14.3	12.2	*	14.3	15.6	*
Sepsis	1	100.0	48.6	*	100.0	54.4	*	100.0	60.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	6	0.0	5.3	*	0.0	9.0	*	0.0	11.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	9	0.0	4.0	*	0.0	7.7	*	0.0	10.2	*
Open Reduction of Hip Fracture	4	0.0	4.4	*	0.0	9.0	*	0.0	12.5	*
Prostatectomy	11	0.0	0.7	*	0.0	1.8	*	0.0	3.0	*
Cholecystectomy	6	0.0	1.3	*	0.0	2.3	*	0.0	3.0	*
Hysterectomy	2	0.0	0.2	*	0.0	0.3	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

WELBORN BAPTIST HOSPITAL

401 Southeast 6th St
Evansville, IN 47713

Medicare Provider Number: 150025

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,310	10.6	8.5	0.8	15.0	12.6	1.0	18.5	15.9	1.0
CONDITIONS:										
Acute Myocardial Infarction	82	32.9	25.5	10.6	35.4	28.6	10.4	37.8	32.3	10.2
Congestive Heart Failure	94	17.0	12.8	4.0	26.6	20.3	5.2	38.3	26.7	7.4
Pneumonia/Influenza	97	21.6	16.4	8.0	29.9	22.5	8.2	32.0	27.4	6.8
Chronic Obstructive Pulmonary Disease	12	8.3	6.0	*	25.0	10.2	*	25.0	14.1	*
Transient Cerebral Ischemia	26	0.0	1.9	*	0.0	4.2	*	3.8	6.8	*
Stroke	79	26.6	20.8	5.0	32.9	26.4	6.0	35.4	30.6	5.5
Hip Fracture	52	9.6	8.6	4.7	17.3	14.8	5.4	21.2	18.5	6.6
Sepsis	13	38.5	28.5	*	46.2	37.7	*	46.2	44.2	*
PROCEDURES:										
Angioplasty	43	9.3	4.4	*	9.3	5.4	*	9.3	6.6	*
Coronary Artery Bypass Graft	41	9.8	5.6	*	12.2	7.7	*	12.2	9.0	*
Initial Pacemaker Insertion	4	25.0	1.5	*	25.0	3.0	*	25.0	4.4	*
Carotid Endarterectomy	7	0.0	1.3	*	0.0	2.4	*	0.0	3.7	*
Hip Replacement/Reconstruction	41	4.9	4.4	*	7.3	7.8	*	9.8	10.0	*
Open Reduction of Hip Fracture	20	15.0	10.0	*	25.0	17.4	*	30.0	21.7	*
Prostatectomy	50	0.0	0.5	*	0.0	1.2	*	2.0	2.0	*
Cholecystectomy	62	4.8	3.9	2.9	6.5	6.6	3.2	6.5	8.2	3.8
Hysterectomy	37	0.0	0.5	*	0.0	1.0	*	0.0	1.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	339
Occupancy Rate	66
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	138
Percent of Physicians Board Certified Specialists	81
Medical Residents/Interns	1
Registered Nurses	335
Licensed Practical Nurses	16

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	Yes
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

WELBORN BAPTIST HOSPITAL
Medicare Provider Number: 150025

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,232	10.1	8.6	0.8	14.3	12.9	1.0	17.9	16.3	1.1
CONDITIONS:										
Acute Myocardial Infarction	75	37.3	28.7	11.0	37.3	31.9	10.6	41.3	35.6	9.9
Congestive Heart Failure	83	22.9	12.6	5.8	25.3	19.7	5.3	30.1	25.9	5.2
Pneumonia/Influenza	78	20.5	17.7	6.6	26.9	23.6	7.4	32.1	28.4	6.7
Chronic Obstructive Pulmonary Disease	18	5.6	7.4	*	5.6	13.7	*	27.8	19.0	*
Transient Cerebral Ischemia	29	3.4	1.6	*	6.9	3.3	*	6.9	5.2	*
Stroke	100	23.0	21.2	6.1	30.0	27.2	7.8	38.0	31.6	10.1
Hip Fracture	68	10.3	6.3	6.1	14.7	11.5	5.6	17.6	14.9	5.5
Sepsis	13	38.5	34.9	*	46.2	44.2	*	61.5	51.5	*
PROCEDURES:										
Angioplasty	57	7.0	4.3	5.9	8.8	5.3	6.2	10.5	6.4	6.5
Coronary Artery Bypass Graft	43	18.6	5.5	*	18.6	7.2	*	18.6	8.5	*
Initial Pacemaker Insertion	4	0.0	2.2	*	0.0	4.5	*	0.0	6.8	*
Carotid Endarterectomy	7	0.0	1.1	*	0.0	2.1	*	0.0	3.0	*
Hip Replacement/Reconstruction	46	6.5	3.0	*	6.5	5.6	*	6.5	7.4	*
Open Reduction of Hip Fracture	30	10.0	6.2	*	16.7	11.6	*	20.0	15.2	*
Prostatectomy	55	3.6	0.8	2.3	5.5	1.9	2.5	7.3	3.1	3.6
Cholecystectomy	68	2.9	3.3	2.2	7.4	5.9	3.1	11.8	7.8	5.0
Hysterectomy	39	0.0	0.8	*	0.0	1.7	*	5.1	2.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,188	10.0	8.7	0.8	14.5	12.9	0.9	18.0	16.3	1.0
CONDITIONS:										
Acute Myocardial Infarction	84	36.9	28.7	6.3	39.3	32.2	6.8	46.4	36.0	7.2
Congestive Heart Failure	75	16.0	15.0	5.2	29.3	22.8	6.4	40.0	29.4	6.7
Pneumonia/Influenza	59	22.0	16.1	6.1	27.1	21.7	6.0	30.5	26.3	6.8
Chronic Obstructive Pulmonary Disease	22	18.2	8.9	*	18.2	14.9	*	18.2	19.7	*
Transient Cerebral Ischemia	26	0.0	1.8	*	0.0	4.0	*	0.0	6.4	*
Stroke	70	22.9	22.1	5.0	28.6	28.5	5.5	31.4	33.2	5.9
Hip Fracture	56	5.4	5.6	3.1	8.9	10.3	4.2	14.3	13.4	4.8
Sepsis	15	46.7	31.8	*	66.7	40.3	*	66.7	46.4	*
PROCEDURES:										
Angioplasty	43	7.0	4.5	*	7.0	5.6	*	14.0	6.9	*
Coronary Artery Bypass Graft	44	0.0	5.3	*	2.3	7.1	*	2.3	8.1	*
Initial Pacemaker Insertion	4	0.0	3.8	*	0.0	7.7	*	25.0	11.1	*
Carotid Endarterectomy	12	16.7	2.0	*	16.7	3.9	*	25.0	5.6	*
Hip Replacement/Reconstruction	32	0.0	2.8	*	0.0	5.3	*	3.1	7.0	*
Open Reduction of Hip Fracture	13	0.0	5.3	*	7.7	10.2	*	7.7	13.4	*
Prostatectomy	90	2.2	0.6	1.5	2.2	1.4	2.2	4.4	2.4	1.9
Cholecystectomy	69	5.8	4.0	2.8	10.1	6.7	4.1	11.6	8.7	5.5
Hysterectomy	30	0.0	1.0	*	3.3	2.2	*	3.3	3.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

WELBORN
Baptist Hospital

January 15, 1991 Provider #150025

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

RE: HCFA Mortality Statistics
Provider #150025

Dear Mrs. Kappert:

We have reviewed our facility's mortality statistics as calculated by your agency for the year commencing October 1, 1988 and ending September 30, 1989. We are concerned that while HCFA has the data to easily figure a mortality rate by provider number (e.g., Number of Medicare deaths divided by the number of Medicare patients treated), the agency instead has chosen to randomly select cases, and in our case, left out a significant percentage (37%) of cases, resulting in a number that does not describe the care at our facility.

Additionally, we point out that the "hospital characteristics" category of the data should be changed to reflect a total bed capacity of 407 and 33 licensed practical nurses.

We have recounted our Medicare cases during the same time period and submit corrected data in the following categories:

CATEGORY	# Died in hospital	# Died 30 days of hospitalization	Total # treated	Rate
All causes	244	105	3,679	9.4%
Myocardial infarction	28	2	108	28.0%
Stroke	11	6	103	17.0%
Angioplasty	4	0	72	6.0%
Coronary artery bypass grafting	7	0	73	9.5%
Insertion of Pacemaker	2	0	59	3.0%

We do understand that it was your intention to disregard several cases in order to fit data into the statistical methodology you have chosen; however, we have noted that within the subset of cases that you did select for review, procedures have been deleted for reasons unknown even to your staff. Specific attention is drawn to "Attachment A" to this letter, identifying 55 cases of

401 Southeast Sixth Street Evansville, Indiana 47713 (812) 426-8000

pacemaker insertion, of which 24 patients were "randomly" excluded, and the more puzzling 31 patients that were included as patients treated at Welborn but were not credited in the "Insertion of Pacemaker" category. In late December we submitted this list to [redacted] at your agency who has been our contact regarding this issue. She has promised to inquire of others at your agency as to how these cases could have been overlooked. We recognize that our concern is but one of many submitted to your agency regarding this data; however, we feel it is imperative that a resolution of this issue occur prior to public release of this data.

The two pacemaker patients who expired were elderly patients with multiple system diseases. They were not healthy patients electively admitted for pacemaker insertions, but received their pacemakers as a final effort to sustain their lives.

Medicare, by eligibility, is limited to the aged or disabled; a population that by its nature experiences a higher mortality rate than does the general population. Forty-five (45%) of the patients included in the mortality statistics within 30 days of admission to the hospital died following discharge from the hospital. Of those, 53% died in the nursing home they were transferred to after hospitalization, and another 34% were in the care of either hospice or a home health agency with a documented terminal disease. The additional information this year, that is, the patients who died 90 and 180 days post hospitalization is interesting, but does not have significance in the review of hospital mortality rates.

We point out that not only deaths, but all facets of treatment occurring at Welborn Baptist Hospital are reviewed on a continual basis by the Medical Staff. Additionally, all Medicare patients are also reviewed by your subcontractor, Sentinel Medical Review. Neither our Medical Staff nor Sentinel Medical Review have identified a death due to poor quality.

Mortality review is but a small part of our total quality assurance program.

Respectfully yours,

Marjorie Soyugenc

(Mrs.) Marjorie Z. Soyugenc
President

Attachment

WELLS COMMUNITY HOSPITAL

1100 South Main Street
Bluffton, IN 46714

Medicare Provider Number: 150063

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	347	10.4	11.1	1.9	15.9	16.8	3.0	19.3	21.4	3.3
CONDITIONS:										
Acute Myocardial Infarction	13	30.8	29.0	*	30.8	32.1	*	30.8	35.4	*
Congestive Heart Failure	25	20.0	16.1	*	28.0	24.3	*	40.0	31.4	*
Pneumonia/Influenza	16	25.0	18.4	*	31.3	24.9	*	37.5	29.6	*
Chronic Obstructive Pulmonary Disease	3	0.0	4.2	*	0.0	7.6	*	0.0	11.0	*
Transient Cerebral Ischemia	5	0.0	3.2	*	0.0	7.7	*	0.0	12.4	*
Stroke	19	15.8	22.3	*	26.3	28.3	*	31.6	32.7	*
Hip Fracture	24	4.2	6.6	*	8.3	12.3	*	8.3	16.3	*
Sepsis	7	28.6	34.5	*	28.6	44.4	*	28.6	52.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	10	0.0	6.0	*	10.0	11.8	*	10.0	16.0	*
Open Reduction of Hip Fracture	13	7.7	5.0	*	7.7	9.7	*	7.7	13.0	*
Prostatectomy	13	0.0	0.9	*	0.0	2.4	*	0.0	4.1	*
Cholecystectomy	6	0.0	4.8	*	0.0	11.0	*	0.0	16.7	*
Hysterectomy	9	0.0	0.4	*	0.0	0.9	*	0.0	1.5	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	45
Occupancy Rate	31
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	18
Percent of Physicians Board Certified Specialists	50
Medical Residents/Interns	0
Registered Nurses	33
Licensed Practical Nurses	2

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

WELLS COMMUNITY HOSPITAL

Medicare Provider Number: 150063

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	393	14.2	11.2	2.3	20.4	16.9	2.6	23.2	21.4	2.3
CONDITIONS:										
Acute Myocardial Infarction	18	38.9	28.0	*	38.9	31.2	*	44.4	34.9	*
Congestive Heart Failure	27	29.6	15.8	*	40.7	23.7	*	44.4	30.6	*
Pneumonia/Influenza	14	14.3	15.9	*	14.3	21.3	*	14.3	25.5	*
Chronic Obstructive Pulmonary Disease	2	0.0	12.1	*	0.0	27.3	*	0.0	40.5	*
Transient Cerebral Ischemia	7	0.0	2.0	*	28.6	4.6	*	28.6	7.5	*
Stroke	26	34.6	21.3	*	34.6	27.9	*	34.6	32.7	*
Hip Fracture	29	20.7	7.5	*	31.0	14.2	*	34.5	18.8	*
Sepsis	1	0.0	23.2	*	0.0	27.7	*	0.0	33.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	9	22.2	5.6	*	22.2	11.3	*	22.2	15.3	*
Open Reduction of Hip Fracture	15	13.3	7.0	*	33.3	13.7	*	33.3	18.2	*
Prostatectomy	8	12.5	1.4	*	12.5	3.3	*	12.5	5.3	*
Cholecystectomy	15	0.0	3.6	*	0.0	7.1	*	13.3	9.7	*
Hysterectomy	3	0.0	1.0	*	0.0	2.1	*	0.0	3.1	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	382	9.9	9.1	1.7	14.4	14.2	1.9	18.3	18.3	2.0
CONDITIONS:										
Acute Myocardial Infarction	11	18.2	25.9	*	27.3	29.4	*	27.3	33.3	*
Congestive Heart Failure	27	14.8	15.3	*	22.2	23.0	*	33.3	29.9	*
Pneumonia/Influenza	17	23.5	14.3	*	29.4	19.9	*	35.3	24.4	*
Chronic Obstructive Pulmonary Disease	5	20.0	10.1	*	20.0	19.6	*	20.0	27.0	*
Transient Cerebral Ischemia	4	0.0	1.5	*	0.0	3.3	*	0.0	5.2	*
Stroke	20	10.0	20.5	*	25.0	27.8	*	35.0	32.7	*
Hip Fracture	23	17.4	5.8	*	17.4	11.0	*	17.4	14.5	*
Sepsis	4	25.0	24.2	*	25.0	29.7	*	25.0	35.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	33.3	4.4	*	33.3	8.9	*	33.3	12.3	*
Open Reduction of Hip Fracture	15	6.7	5.4	*	6.7	10.7	*	6.7	14.4	*
Prostatectomy	15	6.7	1.7	*	6.7	4.3	*	6.7	7.3	*
Cholecystectomy	10	0.0	3.5	*	0.0	7.4	*	0.0	10.6	*
Hysterectomy	6	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

WESTVIEW HOSPITAL

3630 Guion Rd
Indianapolis, IN 46222

Medicare Provider Number: 150129

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	673	8.2	10.2	1.4	11.9	15.2	2.0	15.5	19.1	2.2
CONDITIONS:										
Acute Myocardial Infarction	15	33.3	27.4	*	33.3	31.1	*	33.3	34.6	*
Congestive Heart Failure	37	8.1	16.1	*	13.5	24.6	*	21.6	31.3	*
Pneumonia/Influenza	43	16.3	13.8	*	20.9	19.0	*	23.3	23.3	*
Chronic Obstructive Pulmonary Disease	14	0.0	6.6	*	7.1	11.8	*	14.3	16.5	*
Transient Cerebral Ischemia	7	0.0	1.7	*	0.0	4.0	*	14.3	6.6	*
Stroke	30	16.7	15.7	*	20.0	22.5	*	20.0	26.8	*
Hip Fracture	11	0.0	8.5	*	0.0	14.1	*	0.0	17.6	*
Sepsis	28	28.6	36.2	*	42.9	44.9	*	46.4	51.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	11	0.0	2.4	*	0.0	4.9	*	0.0	7.4	*
Carotid Endarterectomy	1	0.0	1.5	*	0.0	3.3	*	0.0	4.7	*
Hip Replacement/Reconstruction	8	0.0	2.2	*	0.0	3.8	*	0.0	5.0	*
Open Reduction of Hip Fracture	7	0.0	9.7	*	0.0	16.8	*	0.0	21.1	*
Prostatectomy	11	0.0	1.1	*	0.0	2.9	*	0.0	5.0	*
Cholecystectomy	10	0.0	1.9	*	0.0	3.1	*	0.0	4.0	*
Hysterectomy	3	0.0	0.7	*	0.0	1.3	*	0.0	1.9	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	98
Occupancy Rate	52
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	178
Percent of Physicians Board Certified Specialists	67
Medical Residents/Interns	9
Registered Nurses	60
Licensed Practical Nurses	4

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

WESTVIEW HOSPITAL

Medicare Provider Number: 150129

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	661	7.3	9.8	1.7	11.5	14.9	2.5	17.7	18.8	1.6
CONDITIONS:										
Acute Myocardial Infarction	10	30.0	25.7	*	30.0	28.3	*	30.0	31.4	*
Congestive Heart Failure	45	11.1	15.6	*	20.0	23.4	*	24.4	29.9	*
Pneumonia/Influenza	48	12.5	17.6	*	20.8	23.6	*	25.0	28.1	*
Chronic Obstructive Pulmonary Disease	9	0.0	5.6	*	0.0	10.2	*	11.1	14.4	*
Transient Cerebral Ischemia	13	0.0	1.8	*	7.7	3.7	*	15.4	5.9	*
Stroke	24	8.3	14.8	*	12.5	20.9	*	20.8	25.1	*
Hip Fracture	16	0.0	6.5	*	12.5	11.6	*	25.0	14.8	*
Sepsis	8	0.0	30.4	*	12.5	38.0	*	12.5	43.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	3.5	*	50.0	6.8	*	50.0	9.4	*
Carotid Endarterectomy	2	0.0	1.4	*	0.0	3.0	*	50.0	4.5	*
Hip Replacement/Reconstruction	9	0.0	3.5	*	0.0	6.5	*	0.0	8.4	*
Open Reduction of Hip Fracture	11	0.0	5.7	*	18.2	10.9	*	36.4	14.2	*
Prostatectomy	11	0.0	1.2	*	0.0	2.9	*	0.0	4.9	*
Cholecystectomy	11	0.0	2.0	*	0.0	3.7	*	0.0	4.9	*
Hysterectomy	3	0.0	1.6	*	0.0	3.4	*	0.0	5.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	656	7.5	8.7	1.7	11.7	13.1	1.7	14.9	16.7	1.7
CONDITIONS:										
Acute Myocardial Infarction	14	21.4	23.2	*	35.7	25.7	*	42.9	28.6	*
Congestive Heart Failure	39	23.1	15.2	*	33.3	22.9	*	38.5	29.3	*
Pneumonia/Influenza	37	10.8	17.3	*	16.2	23.4	*	18.9	28.1	*
Chronic Obstructive Pulmonary Disease	13	15.4	18.9	*	15.4	27.1	*	15.4	32.1	*
Transient Cerebral Ischemia	15	6.7	1.9	*	6.7	4.1	*	13.3	6.5	*
Stroke	16	18.8	21.4	*	25.0	28.5	*	37.5	32.9	*
Hip Fracture	16	12.5	6.5	*	12.5	11.8	*	12.5	15.3	*
Sepsis	18	50.0	32.9	*	61.1	41.7	*	61.1	48.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	6	0.0	3.5	*	0.0	6.7	*	0.0	9.3	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	7	0.0	4.0	*	0.0	7.9	*	0.0	10.6	*
Open Reduction of Hip Fracture	10	20.0	6.1	*	20.0	11.5	*	20.0	14.9	*
Prostatectomy	8	0.0	1.2	*	0.0	3.3	*	0.0	6.0	*
Cholecystectomy	13	0.0	2.0	*	0.0	3.4	*	0.0	4.2	*
Hysterectomy	4	0.0	0.3	*	0.0	0.7	*	0.0	1.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

WHITE COUNTY MEMORIAL HOSPITAL

1101 OConnor Blvd
Monticello, IN 47960

Medicare Provider Number: 150036

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	437	8.2	9.7	2.0	13.3	14.3	2.9	15.3	18.1	3.7
CONDITIONS:										
Acute Myocardial Infarction	20	15.0	29.2	*	25.0	32.5	*	30.0	36.3	*
Congestive Heart Failure	27	7.4	13.9	*	7.4	21.6	*	11.1	28.1	*
Pneumonia/Influenza	52	5.8	14.2	8.2	15.4	19.5	8.7	19.2	23.9	6.7
Chronic Obstructive Pulmonary Disease	12	0.0	7.3	*	0.0	11.5	*	8.3	15.2	*
Transient Cerebral Ischemia	10	0.0	2.1	*	0.0	5.2	*	0.0	8.6	*
Stroke	17	52.9	22.9	*	64.7	30.3	*	64.7	35.2	*
Hip Fracture	8	25.0	5.0	*	25.0	9.4	*	25.0	12.6	*
Sepsis	5	40.0	22.5	*	40.0	31.5	*	40.0	38.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	50.0	5.7	*	50.0	11.6	*	50.0	16.3	*
Open Reduction of Hip Fracture	4	0.0	4.2	*	0.0	8.4	*	0.0	11.4	*
Prostatectomy	11	0.0	1.1	*	9.1	2.9	*	9.1	5.3	*
Cholecystectomy	12	0.0	2.7	*	0.0	5.0	*	0.0	6.8	*
Hysterectomy	2	0.0	5.7	*	0.0	10.6	*	0.0	13.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	59
Occupancy Rate	31
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	13
Percent of Physicians Board Certified Specialists	100
Medical Residents/Interns	0
Registered Nurses	34
Licensed Practical Nurses	6

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

WHITE COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 150036

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	483	12.8	9.5	2.0	17.4	14.0	2.3	21.1	17.7	2.4
CONDITIONS:										
Acute Myocardial Infarction	20	35.0	29.2	*	45.0	32.5	*	50.0	36.3	*
Congestive Heart Failure	30	23.3	17.8	*	26.7	27.0	*	36.7	34.3	*
Pneumonia/Influenza	53	17.0	14.5	8.1	24.5	19.9	8.7	26.4	24.2	6.8
Chronic Obstructive Pulmonary Disease	4	25.0	9.4	*	50.0	15.2	*	75.0	20.3	*
Transient Cerebral Ischemia	11	9.1	2.0	*	9.1	4.5	*	9.1	7.1	*
Stroke	20	45.0	17.3	*	45.0	24.2	*	50.0	29.0	*
Hip Fracture	12	25.0	5.4	*	50.0	10.2	*	50.0	13.4	*
Sepsis	7	14.3	29.1	*	14.3	34.2	*	14.3	39.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	33.3	4.3	*	33.3	7.9	*	33.3	10.3	*
Open Reduction of Hip Fracture	6	16.7	3.7	*	66.7	7.5	*	66.7	10.4	*
Prostatectomy	12	0.0	0.6	*	0.0	1.4	*	0.0	2.3	*
Cholecystectomy	10	10.0	2.5	*	10.0	4.4	*	10.0	5.7	*
Hysterectomy	7	0.0	0.5	*	0.0	0.8	*	0.0	1.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	481	11.9	9.2	2.0	17.0	13.5	2.3	20.2	17.2	2.4
CONDITIONS:										
Acute Myocardial Infarction	18	27.8	29.8	*	27.8	33.1	*	27.8	36.6	*
Congestive Heart Failure	33	12.1	13.3	*	18.2	20.7	*	27.3	27.1	*
Pneumonia/Influenza	51	11.8	15.0	5.6	11.8	20.9	7.7	13.7	25.9	9.6
Chronic Obstructive Pulmonary Disease	8	12.5	7.8	*	37.5	12.1	*	37.5	15.9	*
Transient Cerebral Ischemia	9	11.1	1.9	*	11.1	4.2	*	11.1	6.8	*
Stroke	21	33.3	18.6	*	38.1	25.7	*	38.1	30.7	*
Hip Fracture	13	0.0	6.7	*	7.7	12.4	*	23.1	16.2	*
Sepsis	4	0.0	21.2	*	25.0	28.4	*	25.0	34.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	4.6	*	0.0	8.4	*	0.0	11.2	*
Open Reduction of Hip Fracture	4	0.0	10.3	*	0.0	20.2	*	25.0	26.9	*
Prostatectomy	14	0.0	0.6	*	0.0	1.3	*	0.0	2.1	*
Cholecystectomy	9	0.0	0.9	*	0.0	1.9	*	0.0	2.9	*
Hysterectomy	2	0.0	0.4	*	0.0	0.6	*	0.0	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

WHITLEY COUNTY MEMORIAL HOSPITAL

353 N Oak St
Columbia City, IN 46725

Medicare Provider Number: 150101

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	625	8.0	10.2	1.6	11.4	15.1	2.0	14.4	19.1	2.3
CONDITIONS:										
Acute Myocardial Infarction	22	22.7	29.3	*	31.8	33.0	*	31.8	37.1	*
Congestive Heart Failure	49	10.2	15.3	*	20.4	23.7	*	24.5	30.6	*
Pneumonia/Influenza	44	11.4	14.5	*	13.6	19.6	*	15.9	24.0	*
Chronic Obstructive Pulmonary Disease	13	7.7	6.2	*	7.7	10.3	*	15.4	14.2	*
Transient Cerebral Ischemia	10	0.0	2.1	*	0.0	4.7	*	20.0	7.4	*
Stroke	22	13.6	20.4	*	13.6	26.7	*	13.6	31.2	*
Hip Fracture	14	0.0	5.5	*	0.0	10.3	*	0.0	13.8	*
Sepsis	8	0.0	23.2	*	0.0	29.2	*	0.0	34.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	6	0.0	4.4	*	0.0	8.7	*	0.0	11.9	*
Open Reduction of Hip Fracture	6	0.0	4.6	*	0.0	8.5	*	0.0	11.3	*
Prostatectomy	13	0.0	1.1	*	0.0	2.7	*	0.0	4.6	*
Cholecystectomy	18	5.6	3.9	*	5.6	7.4	*	5.6	9.7	*
Hysterectomy	2	0.0	0.4	*	0.0	0.7	*	0.0	1.0	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	55
Occupancy Rate	56
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	18
Percent of Physicians Board Certified Specialists	44
Medical Residents/Interns	0
Registered Nurses	58
Licensed Practical Nurses	12

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

WHITLEY COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 150101

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	636	8.5	9.3	1.3	12.6	13.5	1.6	16.0	17.0	1.6
CONDITIONS:										
Acute Myocardial Infarction	25	20.0	29.6	*	28.0	32.6	*	32.0	36.2	*
Congestive Heart Failure	38	28.9	17.8	*	36.8	26.6	*	39.5	33.7	*
Pneumonia/Influenza	42	11.9	15.3	*	16.7	20.9	*	21.4	25.4	*
Chronic Obstructive Pulmonary Disease	11	18.2	7.0	*	18.2	11.7	*	18.2	15.6	*
Transient Cerebral Ischemia	16	0.0	1.6	*	6.3	3.4	*	6.3	5.3	*
Stroke	21	14.3	25.1	*	14.3	31.3	*	23.8	36.0	*
Hip Fracture	7	0.0	4.2	*	0.0	8.1	*	0.0	10.9	*
Sepsis	5	0.0	30.5	*	0.0	37.6	*	0.0	43.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	4.8	*	0.0	9.0	*	0.0	11.7	*
Open Reduction of Hip Fracture	0									
Prostatectomy	11	0.0	1.0	*	0.0	2.4	*	0.0	3.8	*
Cholecystectomy	17	0.0	1.4	*	0.0	2.5	*	0.0	3.3	*
Hysterectomy	6	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	671	10.4	9.4	1.3	15.4	13.8	1.7	19.5	17.5	2.3
CONDITIONS:										
Acute Myocardial Infarction	26	26.9	34.8	*	30.8	38.0	*	30.8	41.9	*
Congestive Heart Failure	36	22.2	16.1	*	36.1	24.6	*	44.4	31.6	*
Pneumonia/Influenza	46	13.0	13.4	*	15.2	18.5	*	21.7	22.9	*
Chronic Obstructive Pulmonary Disease	8	0.0	6.1	*	0.0	11.1	*	12.5	15.5	*
Transient Cerebral Ischemia	23	8.7	2.0	*	8.7	4.5	*	13.0	7.2	*
Stroke	26	19.2	22.1	*	23.1	29.0	*	26.9	33.9	*
Hip Fracture	10	10.0	4.7	*	10.0	9.0	*	20.0	12.2	*
Sepsis	3	0.0	32.1	*	33.3	41.2	*	33.3	47.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	25.0	3.5	*	25.0	7.0	*	25.0	9.5	*
Open Reduction of Hip Fracture	2	0.0	4.8	*	0.0	10.3	*	0.0	14.6	*
Prostatectomy	14	0.0	0.8	*	0.0	2.0	*	0.0	3.5	*
Cholecystectomy	14	7.1	1.4	*	7.1	2.4	*	7.1	3.1	*
Hysterectomy	2	0.0	0.1	*	0.0	0.2	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

WILLIAM N WISHARD MEMORIAL HOSPITAL

1001 West 10th Street
Indianapolis, IN 46202

Medicare Provider Number: 150024

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,599	7.8	8.2	1.0	12.7	12.9	1.0	16.3	16.6	1.0
CONDITIONS:										
Acute Myocardial Infarction	23	21.7	28.2	*	26.1	31.1	*	26.1	34.2	*
Congestive Heart Failure	102	15.7	13.3	3.5	17.6	20.8	4.3	22.5	27.1	5.1
Pneumonia/Influenza	75	16.0	16.7	4.5	21.3	22.9	5.4	24.0	27.7	7.0
Chronic Obstructive Pulmonary Disease	32	3.1	6.8	*	6.3	11.7	*	12.5	16.1	*
Transient Cerebral Ischemia	9	0.0	1.7	*	0.0	3.6	*	11.1	5.6	*
Stroke	48	16.7	16.9	*	25.0	22.3	*	31.2	26.1	*
Hip Fracture	33	3.0	6.5	*	6.1	11.6	*	9.1	15.2	*
Sepsis	13	38.5	29.8	*	53.8	38.6	*	69.2	46.1	*
PROCEDURES:										
Angioplasty	3	0.0	2.4	*	0.0	4.7	*	0.0	6.9	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	5.4	*	0.0	10.9	*	0.0	16.0	*
Carotid Endarterectomy	1	0.0	0.8	*	0.0	1.4	*	0.0	2.0	*
Hip Replacement/Reconstruction	16	0.0	3.1	*	0.0	5.8	*	6.3	7.7	*
Open Reduction of Hip Fracture	14	7.1	4.8	*	7.1	8.9	*	7.1	11.7	*
Prostatectomy	22	0.0	1.7	*	0.0	4.1	*	4.5	6.7	*
Cholecystectomy	18	0.0	2.2	*	11.1	3.6	*	11.1	4.5	*
Hysterectomy	17	0.0	0.7	*	0.0	1.5	*	0.0	2.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	415
Occupancy Rate	69
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	452
Percent of Physicians Board Certified Specialists	74
Medical Residents/Interns	0
Registered Nurses	654
Licensed Practical Nurses	100

SPECIALTY SERVICES:

Burn Unit	Yes
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	Yes
Rehabilitation Unit	No
Trauma Center	Yes

**** Not used in calculating hospital mortality rates.**

WILLIAM N WISHARD MEMORIAL HOSPITAL

Medicare Provider Number: 150024

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,705	9.3	9.2	0.7	13.7	14.0	1.0	16.3	17.8	1.3
CONDITIONS:										
Acute Myocardial Infarction	37	18.9	24.4	*	24.3	27.3	*	27.0	30.6	*
Congestive Heart Failure	93	6.5	14.8	4.9	15.1	22.4	6.0	15.1	28.7	7.1
Pneumonia/Influenza	87	14.9	16.8	4.4	19.5	22.8	6.8	20.7	27.3	8.2
Chronic Obstructive Pulmonary Disease	29	10.3	6.2	*	17.2	10.9	*	24.1	15.2	*
Transient Cerebral Ischemia	13	0.0	2.4	*	15.4	5.4	*	23.1	8.5	*
Stroke	61	34.4	21.8	9.3	44.3	28.6	11.2	45.9	33.1	10.5
Hip Fracture	37	2.7	5.6	*	5.4	10.2	*	5.4	13.3	*
Sepsis	3	66.7	24.4	*	66.7	35.8	*	66.7	42.2	*
PROCEDURES:										
Angioplasty	5	0.0	7.0	*	0.0	7.9	*	0.0	9.0	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	2.5	*	0.0	5.0	*	0.0	7.2	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	15	0.0	2.6	*	6.7	4.8	*	6.7	6.4	*
Open Reduction of Hip Fracture	18	0.0	5.7	*	0.0	10.8	*	0.0	14.1	*
Prostatectomy	17	0.0	0.6	*	0.0	1.4	*	0.0	2.4	*
Cholecystectomy	12	8.3	5.0	*	8.3	9.0	*	16.7	11.6	*
Hysterectomy	6	0.0	0.4	*	0.0	0.9	*	16.7	1.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,650	9.8	9.5	1.1	15.5	14.3	1.4	18.9	18.0	1.3
CONDITIONS:										
Acute Myocardial Infarction	39	28.2	32.6	*	30.8	35.9	*	33.3	39.5	*
Congestive Heart Failure	82	9.8	15.5	6.0	20.7	23.6	6.4	23.2	30.3	6.7
Pneumonia/Influenza	64	21.9	17.3	9.6	28.1	23.4	10.2	34.4	28.3	10.8
Chronic Obstructive Pulmonary Disease	38	2.6	9.7	*	5.3	17.0	*	5.3	22.7	*
Transient Cerebral Ischemia	17	0.0	2.0	*	5.9	4.3	*	5.9	6.4	*
Stroke	72	26.4	20.8	7.3	31.9	27.6	6.7	37.5	31.8	8.3
Hip Fracture	42	9.5	5.9	*	21.4	11.1	*	23.8	14.6	*
Sepsis	6	33.3	41.6	*	50.0	50.2	*	50.0	55.6	*
PROCEDURES:										
Angioplasty	2	0.0	1.7	*	0.0	2.3	*	0.0	3.1	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	0.0	3.5	*	0.0	7.2	*	0.0	10.5	*
Carotid Endarterectomy	3	0.0	1.7	*	0.0	3.8	*	0.0	6.1	*
Hip Replacement/Reconstruction	14	7.1	3.2	*	7.1	6.0	*	21.4	7.8	*
Open Reduction of Hip Fracture	23	13.0	4.9	*	30.4	9.7	*	30.4	13.0	*
Prostatectomy	24	0.0	1.5	*	0.0	3.5	*	0.0	5.3	*
Cholecystectomy	15	0.0	7.1	*	6.7	12.3	*	13.3	15.6	*
Hysterectomy	9	0.0	0.5	*	0.0	0.9	*	0.0	1.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

229.1

Medical Director's Office

PROVIDER NUMBER: 150024

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore Maryland 21207

Dear Ms. Wilensky:

The William N. Wishard Memorial Hospital staff appreciates the opportunity provided by the Health Care Financing Administration (HCFA) to review and comment on Medicare hospital mortality information for patients discharged between October 1, 1988 and September 30, 1989. The data provided, was researched and discussed jointly by members of the medical staff, nursing and administration. We are very pleased that the overall death rate of 7.8% assessed by HCFA is below the death rate of 8.2% that would be predicted by HCFA for Wishard Hospital based on the characteristics of our patients, there are pertinent observations and comments about the data that we would like to make.

1. Wishard Memorial Hospital is an urban, public, teaching facility which provides services to a disproportionate share of the economically disadvantaged residents in the area. There is evidence that suboptimal diet, environment, and available support systems which frequently are deficient in this population can lead to worse outcomes in this population. These factors are not fully taken into account in the HCFA analyses; so that our observed mortality might even be better than the HCFA predictions would suggest.

2. Many elderly patients that we serve have significant co-morbid disease processes that exacerbate the patient's clinical prognosis. Socioeconomic status may have a significant influence on co-morbid circumstances.

3. In reviewing 100% of the deaths assessed to Wishard Hospital, it was found that 80.4% of the patients had four or more complications/comorbidities present that would have increased the severity of illness for the patients seen.

WISHARD MEMORIAL HOSPITAL
INDIANA UNIVERSITY MEDICAL CENTER
1001 West 10th Street Indianapolis, Indiana 46202 317/639-6671
"Division of Hospitals . . . The Health and Hospital Corporation of Marion County."

Medical Director's Office

PROVIDER NUMBER: 150024

4. Of the total number of deaths assessed to Wishard Memorial Hospital, it was found that 182 or 53% of these deaths occurred outside the hospital.

5. There were three categories in which Wishard Memorial Hospital's observed mortality rate exceeded the predicted rate at 30 day. Those categories are as follows: Congestive Heart Failure, Sepsis, and Open Reduction of Hip Fracture. However the difference was not statistically significant in the case of one disease (CHF) for which HCFA supplied the necessary statistics. Statistical significance could not be calculated for the other categories due to a low case volume and inability to determine a standard deviation. More over, in the case of both CHF and Open Reduction of Hip Fracture, our 90 and 180 day mortalities were less than predicted.

   In the case of both CHF and Sepsis, the majority of patients (68% of the CHF patients and 70% of the Sepsis patients), were admitted with terminal illnesses. Incurable cancer was particularly common among the fatal Sepsis cases.

   We reviewed all of the CHF, Sepsis, and Open Hip Reduction cases that died in the hospital (there was only one Hip Fracture Reduction to die in the hospital). A review of this case found no quality of care deficiencies.

I hope the items and concerns raised herein are constructive and will contribute to your effort to refine the HCFA data base.

Sincerely,

John Williams, Jr. M.D.
Hospital Director

WISHARD MEMORIAL HOSPITAL
INDIANA UNIVERSITY MEDICAL CENTER
1001 West 10th Street Indianapolis, Indiana 46202 317/639-6671
"Division of Hospitals . . . The Health and Hospital Corporation of Marion County"

WINONA MEMORIAL HOSPITAL

3232 North Meridian Street
Indianapolis, IN 46208

Medicare Provider Number: 150014

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,632	11.0	10.2	1.2	16.2	15.5	1.2	20.0	19.6	1.1
CONDITIONS:										
Acute Myocardial Infarction	30	40.0	29.3	*	46.7	32.6	*	50.0	35.9	*
Congestive Heart Failure	97	11.3	14.1	4.9	18.6	21.8	5.3	23.7	28.3	8.0
Pneumonia/Influenza	96	22.9	18.4	6.3	30.2	25.0	7.7	33.3	29.9	6.9
Chronic Obstructive Pulmonary Disease	28	21.4	7.3	*	25.0	13.2	*	35.7	18.3	*
Transient Cerebral Ischemia	29	0.0	2.3	*	0.0	5.2	*	3.4	8.1	*
Stroke	83	16.9	19.1	7.5	19.3	25.2	7.8	26.5	29.5	6.9
Hip Fracture	45	6.7	7.8	*	22.2	14.1	*	22.2	18.4	*
Sepsis	39	28.2	26.1	*	33.3	34.3	*	35.9	40.5	*
PROCEDURES:										
Angioplasty	1	0.0	7.1	*	100.0	19.3	*	100.0	33.7	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	18	5.6	4.9	*	5.6	8.7	*	5.6	12.3	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	18	5.6	4.7	*	16.7	8.8	*	16.7	11.6	*
Open Reduction of Hip Fracture	21	4.8	7.2	*	14.3	13.5	*	14.3	17.6	*
Prostatectomy	54	0.0	1.2	1.9	0.0	2.9	3.8	3.7	4.8	3.2
Cholecystectomy	18	5.6	4.1	*	5.6	7.0	*	11.1	8.4	*
Hysterectomy	7	14.3	5.9	*	14.3	9.7	*	14.3	12.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	236
Occupancy Rate	55
Ownership/Control	Private, For Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	210
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	0
Registered Nurses	128
Licensed Practical Nurses	22

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

WINONA MEMORIAL HOSPITAL

Medicare Provider Number: 150014

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,744	8.9	10.2	1.0	14.7	15.3	1.0	18.6	19.1	1.0
CONDITIONS:										
Acute Myocardial Infarction	41	34.1	33.9	*	34.1	37.1	*	34.1	40.8	*
Congestive Heart Failure	98	9.2	15.0	4.8	16.3	22.9	5.3	19.4	29.5	6.5
Pneumonia/Influenza	76	13.2	14.7	4.2	18.4	20.5	5.0	19.7	24.8	6.7
Chronic Obstructive Pulmonary Disease	19	10.5	10.2	*	10.5	17.8	*	21.1	24.0	*
Transient Cerebral Ischemia	28	0.0	1.8	*	3.6	4.1	*	14.3	6.5	*
Stroke	60	16.7	23.6	10.1	25.0	30.8	9.5	33.3	35.8	7.5
Hip Fracture	47	8.5	7.2	*	10.6	13.0	*	21.3	16.8	*
Sepsis	36	25.0	33.2	*	41.7	41.3	*	44.4	47.4	*
PROCEDURES:										
Angioplasty	15	13.3	7.9	*	13.3	8.9	*	13.3	9.9	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	8	0.0	2.4	*	0.0	4.6	*	0.0	6.7	*
Carotid Endarterectomy	4	0.0	1.4	*	0.0	2.9	*	0.0	4.3	*
Hip Replacement/Reconstruction	19	5.3	4.3	*	5.3	8.5	*	5.3	11.5	*
Open Reduction of Hip Fracture	27	7.4	7.4	*	11.1	13.9	*	25.9	18.1	*
Prostatectomy	46	0.0	0.9	*	2.2	2.4	*	2.2	4.0	*
Cholecystectomy	27	3.7	3.0	*	7.4	5.2	*	7.4	6.4	*
Hysterectomy	9	0.0	0.9	*	0.0	2.0	*	0.0	3.2	*

*The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,837	9.7	9.8	1.3	14.2	14.7	1.3	17.8	18.5	1.2
CONDITIONS:										
Acute Myocardial Infarction	43	37.2	32.8	*	41.9	36.7	*	46.5	40.5	*
Congestive Heart Failure	100	13.0	15.4	7.1	15.0	23.0	9.5	23.0	29.4	10.2
Pneumonia/Influenza	73	12.3	16.0	6.6	13.7	22.1	7.3	23.3	26.8	5.8
Chronic Obstructive Pulmonary Disease	27	7.4	9.6	*	14.8	16.3	*	14.8	21.5	*
Transient Cerebral Ischemia	36	2.8	2.1	*	8.3	4.8	*	8.3	7.5	*
Stroke	74	18.9	24.5	7.3	27.0	30.5	6.0	31.1	35.0	6.2
Hip Fracture	28	14.3	6.6	*	21.4	12.2	*	25.0	15.9	*
Sepsis	30	20.0	26.5	*	20.0	37.0	*	23.3	44.2	*
PROCEDURES:										
Angioplasty	9	11.1	8.8	*	11.1	10.0	*	22.2	11.6	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	11	0.0	4.6	*	0.0	8.5	*	0.0	11.6	*
Carotid Endarterectomy	5	0.0	1.4	*	0.0	2.8	*	0.0	4.0	*
Hip Replacement/Reconstruction	24	8.3	3.4	*	12.5	6.5	*	16.7	8.6	*
Open Reduction of Hip Fracture	14	14.3	6.4	*	21.4	12.3	*	21.4	16.4	*
Prostatectomy	81	3.7	1.1	2.8	4.9	2.8	2.6	4.9	4.8	2.7
Cholecystectomy	21	9.5	3.1	*	9.5	5.9	*	14.3	8.0	*
Hysterectomy	6	0.0	0.7	*	0.0	1.3	*	0.0	1.9	*

*The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

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WINONA
Memorial Hospital

January 4, 1990

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2D2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

RE: Medicare Provider No: 150014

Subject: Mortality Information

Dear Sandra:

The staff of Winona Memorial Hospital is pleased to find that for our type of institution the variability is consistent with what is expected nationally in patient mortality rates.

Winona Memorial Hospital is a 283 bed adult medical surgical hospital with a 56.3% year-to-date percentage Medicare population.

This information will be shared with our Medical Staff and utilized in our Quality Assurance Program.

Sincerely,

ROD G. TANK,
Chief Operating Officer

3232 N. Meridian Street
Indianapolis, Indiana 46208
317·924·3392

WIRTH OSTEOPATHIC HOSPITAL

Highway 64-West
Oakland City, IN 47660

Medicare Provider Number: 150123

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	182	6.6	9.5	3.6	8.8	13.9	3.9	12.6	17.7	4.2
CONDITIONS:										
Acute Myocardial Infarction	3	0.0	26.9	*	0.0	30.0	*	0.0	34.5	*
Congestive Heart Failure	15	13.3	13.1	*	20.0	20.5	*	33.3	26.9	*
Pneumonia/Influenza	33	12.1	15.6	*	21.2	21.6	*	24.2	26.2	*
Chronic Obstructive Pulmonary Disease	3	0.0	4.5	*	0.0	8.3	*	0.0	11.8	*
Transient Cerebral Ischemia	1	0.0	1.2	*	0.0	2.7	*	0.0	4.3	*
Stroke	6	16.7	20.5	*	16.7	27.1	*	33.3	32.0	*
Hip Fracture	0									
Sepsis	3	33.3	30.8	*	33.3	35.7	*	33.3	41.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	2	0.0	0.4	*	0.0	0.6	*	0.0	0.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	34
Occupancy Rate	27
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	4
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	0
Registered Nurses	16
Licensed Practical Nurses	4

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

WIRTH OSTEOPATHIC HOSPITAL

Medicare Provider Number: 150123

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	192	9.4	10.1	2.7	14.1	14.9	3.0	18.2	19.1	3.1
CONDITIONS:										
Acute Myocardial Infarction	1	0.0	47.8	*	0.0	51.7	*	100.0	56.8	*
Congestive Heart Failure	13	15.4	15.9	*	15.4	25.2	*	15.4	32.7	*
Pneumonia/Influenza	27	22.2	17.0	*	25.9	23.6	*	29.6	28.4	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	7	14.3	18.5	*	42.9	24.0	*	57.1	28.5	*
Hip Fracture	0									
Sepsis	8	12.5	27.8	*	37.5	32.0	*	37.5	37.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	1	0.0	4.0	*	0.0	7.8	*	0.0	10.3	*
Hysterectomy	0									

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	178	8.4	8.6	2.8	11.8	13.2	3.9	13.5	17.5	4.1
CONDITIONS:										
Acute Myocardial Infarction	1	0.0	27.3	*	0.0	30.1	*	0.0	34.2	*
Congestive Heart Failure	10	20.0	14.0	*	30.0	21.7	*	30.0	28.4	*
Pneumonia/Influenza	17	17.6	13.9	*	23.5	19.5	*	23.5	24.3	*
Chronic Obstructive Pulmonary Disease	2	0.0	6.4	*	0.0	11.0	*	0.0	15.1	*
Transient Cerebral Ischemia	2	0.0	1.2	*	0.0	2.7	*	0.0	4.4	*
Stroke	1	0.0	11.7	*	0.0	15.2	*	0.0	18.5	*
Hip Fracture	0									
Sepsis	6	16.7	38.5	*	16.7	44.7	*	16.7	51.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	1	0.0	2.1	*	0.0	4.1	*	0.0	5.1	*
Hysterectomy	0									

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

WITHAM MEMORIAL HOSPITAL

1124 North Lebanon Street
Lebanon, IN 46052

Medicare Provider Number: 150104

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	640	11.2	9.9	1.8	15.8	15.1	1.6	19.5	19.3	1.6
CONDITIONS:										
Acute Myocardial Infarction	19	21.1	28.5	*	21.1	31.2	*	31.6	34.3	*
Congestive Heart Failure	50	24.0	16.2	*	28.0	25.4	*	32.0	32.6	*
Pneumonia/Influenza	35	11.4	17.8	*	14.3	24.2	*	28.6	29.1	*
Chronic Obstructive Pulmonary Disease	17	0.0	3.9	*	0.0	7.6	*	0.0	11.3	*
Transient Cerebral Ischemia	17	0.0	1.7	*	11.8	3.8	*	23.5	6.1	*
Stroke	27	14.8	16.5	*	18.5	23.1	*	22.2	27.3	*
Hip Fracture	17	5.9	6.1	*	17.6	10.7	*	17.6	13.6	*
Sepsis	18	38.9	30.0	*	44.4	38.0	*	55.6	44.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	1.1	*	0.0	2.5	*	0.0	4.1	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	7	0.0	4.2	*	14.3	7.7	*	14.3	10.1	*
Open Reduction of Hip Fracture	8	0.0	6.8	*	12.5	12.5	*	12.5	16.1	*
Prostatectomy	16	6.3	0.6	*	6.3	1.4	*	6.3	2.4	*
Cholecystectomy	8	0.0	2.4	*	0.0	5.0	*	0.0	7.1	*
Hysterectomy	3	0.0	1.6	*	0.0	3.7	*	0.0	6.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1990

Total Beds	80
Ownership/Control	Local Government

STAFFING:

Medical Residents/Interns	0
Registered Nurses	49
Licensed Practical Nurses	7

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	Yes
Hospice	Yes
Intensive Care Unit	No
Organ Transplant	No
Rehabilitation	Yes
Shock Trauma	No

**** Not used in calculating hospital mortality rates.**

WITHAM MEMORIAL HOSPITAL

Medicare Provider Number: 150104

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	663	10.0	8.9	1.4	16.3	13.7	1.6	20.2	17.6	2.3
CONDITIONS:										
Acute Myocardial Infarction	17	5.9	21.8	*	5.9	24.7	*	17.6	27.9	*
Congestive Heart Failure	54	20.4	15.2	6.4	33.3	23.7	10.6	38.9	30.7	12.2
Pneumonia/Influenza	41	14.6	16.8	*	34.1	23.2	*	41.5	28.1	*
Chronic Obstructive Pulmonary Disease	17	0.0	6.4	*	17.6	10.7	*	17.6	14.5	*
Transient Cerebral Ischemia	14	0.0	2.5	*	7.1	5.5	*	7.1	8.6	*
Stroke	24	20.8	21.0	*	20.8	28.0	*	20.8	32.7	*
Hip Fracture	17	5.9	6.7	*	5.9	12.2	*	5.9	15.6	*
Sepsis	19	26.3	27.3	*	31.6	34.5	*	42.1	40.7	*
PROCEDURE:										
Angioplasty	1	0.0	3.5	*	0.0	4.0	*	0.0	4.6	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	6	0.0	2.1	*	0.0	4.2	*	16.7	6.2	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	4.3	*	0.0	9.2	*	0.0	12.9	*
Open Reduction of Hip Fracture	14	7.1	6.0	*	7.1	11.1	*	7.1	14.4	*
Prostatectomy	18	0.0	0.8	*	0.0	2.0	*	5.6	3.5	*
Cholecystectomy	8	0.0	2.2	*	12.5	4.7	*	12.5	7.1	*
Hysterectomy	7	0.0	0.3	*	0.0	0.8	*	0.0	1.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	612	9.3	9.0	1.4	14.7	13.7	1.5	19.6	17.4	1.9
CONDITIONS:										
Acute Myocardial Infarction	24	20.8	25.2	*	25.0	28.4	*	29.2	31.6	*
Congestive Heart Failure	43	11.6	17.4	*	25.6	26.0	*	34.9	33.2	*
Pneumonia/Influenza	45	11.1	16.9	*	15.6	23.3	*	22.2	28.2	*
Chronic Obstructive Pulmonary Disease	25	8.0	5.0	*	8.0	9.9	*	12.0	14.2	*
Transient Cerebral Ischemia	9	0.0	1.9	*	0.0	4.1	*	0.0	6.5	*
Stroke	33	18.2	19.3	*	27.3	26.6	*	30.3	31.3	*
Hip Fracture	12	8.3	4.8	*	8.3	9.2	*	8.3	12.2	*
Sepsis	10	20.0	22.1	*	20.0	30.3	*	30.0	36.1	*
PROCEDURES:										
Angioplasty	2	0.0	8.0	*	0.0	9.1	*	0.0	10.7	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	6	0.0	4.9	*	0.0	8.5	*	16.7	11.6	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	6	16.7	3.5	*	16.7	7.4	*	16.7	10.4	*
Open Reduction of Hip Fracture	5	0.0	5.8	*	0.0	10.9	*	0.0	14.2	*
Prostatectomy	13	0.0	1.2	*	0.0	3.0	*	0.0	5.3	*
Cholecystectomy	16	0.0	1.4	*	6.3	2.6	*	12.5	3.6	*
Hysterectomy	3	0.0	0.2	*	0.0	0.4	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

WOODLAWN HOSPITAL

1400 East 9th St
Rochester, IN 46975

Medicare Provider Number: 150111

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	483	7.9	10.3	2.5	13.0	14.8	2.3	16.8	18.5	2.6
CONDITIONS:										
Acute Myocardial Infarction	23	13.0	27.0	*	13.0	30.7	*	13.0	35.0	*
Congestive Heart Failure	34	14.7	14.7	*	23.5	22.4	*	38.2	28.8	*
Pneumonia/Influenza	32	12.5	12.6	*	18.8	17.3	*	21.9	21.3	*
Chronic Obstructive Pulmonary Disease	17	11.8	7.2	*	17.6	11.4	*	23.5	15.4	*
Transient Cerebral Ischemia	6	0.0	1.2	*	0.0	2.6	*	0.0	4.0	*
Stroke	23	17.4	19.7	*	21.7	25.9	*	30.4	30.3	*
Hip Fracture	3	0.0	3.1	*	0.0	6.2	*	0.0	8.9	*
Sepsis	4	25.0	46.3	*	50.0	53.2	*	50.0	59.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	1.6	*	0.0	3.6	*	0.0	6.5	*
Carotid Endarterectomy	1	0.0	1.6	*	0.0	3.1	*	0.0	4.7	*
Hip Replacement/Reconstruction	3	0.0	2.9	*	0.0	6.0	*	0.0	8.6	*
Open Reduction of Hip Fracture	0									
Prostatectomy	8	0.0	0.6	*	0.0	1.4	*	0.0	2.4	*
Cholecystectomy	15	6.7	3.1	*	6.7	5.3	*	13.3	6.5	*
Hysterectomy	3	0.0	0.3	*	0.0	0.5	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	49
Occupancy Rate	53
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	19
Percent of Physicians Board Certified Specialists	68
Medical Residents/Interns	0
Registered Nurses	36
Licensed Practical Nurses	13

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

WOODLAWN HOSPITAL

Medicare Provider Number: 150111

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	465	10.5	11.8	2.4	15.5	16.2	3.5	17.8	19.9	3.7
CONDITIONS:										
Acute Myocardial Infarction	48	16.7	34.3	*	22.9	37.4	*	25.0	41.5	*
Congestive Heart Failure	25	8.0	14.8	*	8.0	22.6	*	12.0	29.1	*
Pneumonia/Influenza	22	13.6	17.7	*	18.2	23.8	*	22.7	27.9	*
Chronic Obstructive Pulmonary Disease	13	23.1	8.3	*	23.1	13.0	*	23.1	17.5	*
Transient Cerebral Ischemia	6	0.0	2.1	*	0.0	4.6	*	0.0	7.4	*
Stroke	19	36.8	19.4	*	42.1	26.3	*	52.6	31.1	*
Hip Fracture	5	0.0	5.5	*	40.0	10.4	*	60.0	13.8	*
Sepsis	6	16.7	40.3	*	16.7	46.5	*	33.3	52.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	2.0	*	0.0	3.9	*	0.0	5.9	*
Carotid Endarterectomy	2	0.0	1.1	*	0.0	2.1	*	0.0	3.0	*
Hip Replacement/Reconstruction	2	0.0	4.2	*	50.0	8.4	*	50.0	11.4	*
Open Reduction of Hip Fracture	0									
Prostatectomy	1	0.0	20.8	*	0.0	49.9	*	0.0	74.4	*
Cholecystectomy	12	16.7	3.8	*	16.7	8.1	*	16.7	11.5	*
Hysterectomy	4	0.0	1.8	*	25.0	4.3	*	50.0	7.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	520	11.7	10.2	1.6	17.5	14.8	2.5	20.6	18.7	2.1
CONDITIONS:										
Acute Myocardial Infarction	20	15.0	34.8	*	20.0	38.5	*	20.0	42.6	*
Congestive Heart Failure	36	27.8	15.0	*	41.7	23.5	*	47.2	30.7	*
Pneumonia/Influenza	39	15.4	17.7	*	28.2	23.8	*	33.3	28.7	*
Chronic Obstructive Pulmonary Disease	10	0.0	8.3	*	10.0	13.7	*	10.0	18.5	*
Transient Cerebral Ischemia	8	12.5	1.5	*	12.5	3.0	*	12.5	4.7	*
Stroke	21	28.6	19.9	*	28.6	25.9	*	33.3	30.6	*
Hip Fracture	9	0.0	8.4	*	11.1	14.5	*	22.2	18.3	*
Sepsis	6	33.3	35.8	*	33.3	44.4	*	33.3	50.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	16.0	*	0.0	22.1	*	0.0	26.2	*
Carotid Endarterectomy	2	50.0	1.2	*	50.0	2.3	*	50.0	3.5	*
Hip Replacement/Reconstruction	2	0.0	10.4	*	0.0	17.2	*	0.0	20.9	*
Open Reduction of Hip Fracture	0									
Prostatectomy	5	20.0	2.1	*	20.0	5.1	*	20.0	8.4	*
Cholecystectomy	19	5.3	2.8	*	10.5	5.0	*	10.5	6.3	*
Hysterectomy	2	0.0	1.3	*	0.0	3.0	*	0.0	4.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

Michigan

ADDISON COMMUNITY HOSPITAL

421 N Steer
Addison, MI 49220

Medicare Provider Number: 230175

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	133	6.8	8.7	3.0	10.5	12.9	4.3	13.5	16.5	6.0
CONDITIONS:										
Acute Myocardial Infarction	6	16.7	36.3	*	16.7	39.9	*	16.7	44.3	*
Congestive Heart Failure	10	20.0	12.0	*	20.0	18.9	*	20.0	25.1	*
Pneumonia/Influenza	10	10.0	19.3	*	10.0	26.8	*	10.0	32.0	*
Chronic Obstructive Pulmonary Disease	14	0.0	3.4	*	7.1	7.3	*	14.3	11.2	*
Transient Cerebral Ischemia	2	0.0	1.5	*	0.0	3.3	*	0.0	5.2	*
Stroke	2	0.0	21.0	*	0.0	28.0	*	0.0	33.0	*
Hip Fracture	0									
Sepsis	1	0.0	20.5	*	0.0	27.0	*	0.0	32.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	2	0.0	0.7	*	0.0	1.1	*	0.0	1.5	*
Hysterectomy	0									

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	24
Occupancy Rate	25
Ownership/Control	District/Authority

STAFFING: (As of September 30, 1989)

Total Number of Physicians	25
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	0
Registered Nurses	12
Licensed Practical Nurses	2

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

ADDISON COMMUNITY HOSPITAL

Medicare Provider Number: 230175

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	146	5.5	9.1	3.5	8.9	13.7	4.1	13.0	17.3	4.2
CONDITIONS:										
Acute Myocardial Infarction	3	0.0	35.4	*	0.0	38.6	*	0.0	41.8	*
Congestive Heart Failure	9	22.2	15.7	*	33.3	23.3	*	33.3	29.9	*
Pneumonia/Influenza	15	13.3	16.3	*	20.0	22.6	*	26.7	27.0	*
Chronic Obstructive Pulmonary Disease	10	0.0	4.1	*	0.0	7.9	*	0.0	11.1	*
Transient Cerebral Ischemia	0									
Stroke	4	25.0	15.0	*	25.0	19.6	*	25.0	23.6	*
Hip Fracture	0									
Sepsis	1	100.0	32.6	*	100.0	43.8	*	100.0	53.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	100.0	53.9	*	100.0	62.3	*	100.0	72.0	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	1	0.0	0.5	*	0.0	0.9	*	0.0	1.3	*
Hysterectomy	0									

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	139	6.5	7.4	3.1	8.6	11.0	3.9	11.5	14.2	5.0
CONDITIONS:										
Acute Myocardial Infarction	3	33.3	37.7	*	33.3	41.6	*	33.3	46.2	*
Congestive Heart Failure	4	25.0	13.2	*	25.0	19.0	*	50.0	24.3	*
Pneumonia/Influenza	15	13.3	14.9	*	13.3	20.4	*	13.3	25.0	*
Chronic Obstructive Pulmonary Disease	10	20.0	9.6	*	20.0	16.6	*	20.0	22.0	*
Transient Cerebral Ischemia	2	0.0	1.4	*	0.0	2.8	*	0.0	4.4	*
Stroke	2	0.0	19.6	*	0.0	25.4	*	0.0	30.3	*
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	1	0.0	2.4	*	0.0	3.9	*	0.0	5.1	*
Hysterectomy	1	0.0	0.3	*	0.0	0.4	*	0.0	0.5	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

ALBION COMMUNITY HOSPITAL

809 W Erie Street
Albion, MI 49224

Medicare Provider Number: 230087

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	456	9.2	10.1	1.8	14.0	14.8	2.4	17.1	18.6	2.4
CONDITIONS:										
Acute Myocardial Infarction	13	38.5	21.3	*	38.5	24.6	*	38.5	28.1	*
Congestive Heart Failure	29	10.3	14.9	*	17.2	23.4	*	20.7	30.5	*
Pneumonia/Influenza	47	10.6	14.7	*	12.8	20.2	*	19.1	24.6	*
Chronic Obstructive Pulmonary Disease	11	18.2	13.9	*	18.2	20.6	*	18.2	26.2	*
Transient Cerebral Ischemia	8	0.0	1.4	*	0.0	3.2	*	0.0	5.1	*
Stroke	11	9.1	18.2	*	27.3	24.5	*	27.3	28.8	*
Hip Fracture	6	0.0	5.3	*	33.3	8.9	*	33.3	11.3	*
Sepsis	5	20.0	35.4	*	40.0	42.7	*	40.0	50.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	0.0	4.9	*	40.0	8.7	*	40.0	11.1	*
Open Reduction of Hip Fracture	2	0.0	3.5	*	0.0	6.1	*	0.0	7.8	*
Prostatectomy	11	0.0	0.7	*	0.0	1.8	*	0.0	3.0	*
Cholecystectomy	16	0.0	1.7	*	0.0	3.2	*	0.0	4.3	*
Hysterectomy	1	0.0	0.1	*	0.0	0.2	*	0.0	0.4	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	61
Occupancy Rate	49
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	28
Percent of Physicians Board Certified Specialists	79
Medical Residents/Interns	0
Registered Nurses	41
Licensed Practical Nurses	17

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

ALBION COMMUNITY HOSPITAL

Medicare Provider Number: 230087

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	419	9.5	9.9	1.5	13.1	14.2	1.9	17.2	17.8	2.1
CONDITIONS:										
Acute Myocardial Infarction	13	23.1	35.1	*	30.8	38.5	*	38.5	42.2	*
Congestive Heart Failure	24	16.7	14.6	*	25.0	22.5	*	33.3	29.3	*
Pneumonia/Influenza	30	10.0	16.6	*	16.7	22.2	*	16.7	26.8	*
Chronic Obstructive Pulmonary Disease	6	0.0	8.7	*	16.7	13.5	*	33.3	17.7	*
Transient Cerebral Ischemia	6	0.0	1.8	*	0.0	3.8	*	0.0	5.9	*
Stroke	15	13.3	20.6	*	20.0	28.0	*	20.0	32.8	*
Hip Fracture	0									
Sepsis	4	25.0	22.3	*	25.0	30.0	*	25.0	35.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	22	4.5	0.9	*	9.1	2.4	*	9.1	4.2	*
Cholecystectomy	14	7.1	5.0	*	14.3	8.8	*	21.4	11.3	*
Hysterectomy	1	0.0	0.4	*	0.0	0.7	*	0.0	1.1	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	419	9.1	9.3	1.7	14.3	13.6	1.8	16.7	17.2	2.0
CONDITIONS:										
Acute Myocardial Infarction	21	23.8	28.9	*	33.3	33.1	*	38.1	37.0	*
Congestive Heart Failure	19	10.5	14.6	*	15.8	23.1	*	15.8	30.2	*
Pneumonia/Influenza	41	17.1	14.3	*	22.0	19.7	*	24.4	24.2	*
Chronic Obstructive Pulmonary Disease	11	0.0	10.8	*	9.1	16.7	*	18.2	21.6	*
Transient Cerebral Ischemia	8	0.0	1.5	*	0.0	3.4	*	0.0	5.4	*
Stroke	10	20.0	16.8	*	30.0	23.8	*	30.0	28.4	*
Hip Fracture	0									
Sepsis	4	25.0	33.9	*	25.0	39.7	*	25.0	45.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	10	0.0	0.6	*	0.0	1.5	*	0.0	2.5	*
Cholecystectomy	12	0.0	2.6	*	0.0	4.5	*	8.3	5.7	*
Hysterectomy	3	0.0	3.2	*	0.0	7.0	*	0.0	10.9	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

ALLEGAN GENERAL HOSPITAL

555 Linn St
Allegan, MI 49010

Medicare Provider Number: 230042

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	511	8.2	8.9	1.4	12.1	13.3	2.0	14.3	16.8	2.9
CONDITIONS:										
Acute Myocardial Infarction	9	33.3	27.3	*	33.3	31.0	*	33.3	34.6	*
Congestive Heart Failure	34	14.7	15.9	*	26.5	24.4	*	29.4	31.6	*
Pneumonia/Influenza	46	15.2	16.5	*	17.4	22.4	*	17.4	26.8	*
Chronic Obstructive Pulmonary Disease	12	16.7	5.1	*	25.0	9.9	*	25.0	14.3	*
Transient Cerebral Ischemia	5	0.0	1.5	*	0.0	3.7	*	0.0	6.3	*
Stroke	15	13.3	20.3	*	20.0	27.0	*	26.7	31.4	*
Hip Fracture	8	0.0	9.9	*	12.5	17.0	*	25.0	21.4	*
Sepsis	8	25.0	28.1	*	25.0	36.0	*	25.0	42.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	12	0.0	1.9	*	0.0	3.4	*	0.0	4.5	*
Open Reduction of Hip Fracture	6	0.0	9.2	*	16.7	16.8	*	33.3	21.5	*
Prostatectomy	21	4.8	0.6	*	4.8	1.5	*	4.8	2.5	*
Cholecystectomy	13	0.0	1.3	*	0.0	2.3	*	0.0	3.1	*
Hysterectomy	1	0.0	0.3	*	0.0	0.6	*	0.0	0.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	75
Occupancy Rate	40
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	24
Percent of Physicians Board Certified Specialists	96
Medical Residents/Interns	0
Registered Nurses	50
Licensed Practical Nurses	19

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

ALLEGAN GENERAL HOSPITAL

Medicare Provider Number: 230042

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	577	10.6	10.4	1.4	15.1	15.5	1.7	17.5	19.4	2.5
CONDITIONS:										
Acute Myocardial Infarction	11	36.4	31.4	*	36.4	35.2	*	36.4	39.0	*
Congestive Heart Failure	36	8.3	16.8	*	16.7	25.5	*	19.4	32.3	*
Pneumonia/Influenza	40	17.5	19.8	*	27.5	26.7	*	30.0	31.7	*
Chronic Obstructive Pulmonary Disease	12	8.3	6.0	*	8.3	10.5	*	16.7	14.6	*
Transient Cerebral Ischemia	6	0.0	2.7	*	0.0	6.3	*	0.0	10.2	*
Stroke	28	17.9	21.5	*	32.1	29.7	*	32.1	34.7	*
Hip Fracture	8	12.5	6.0	*	12.5	11.4	*	12.5	15.0	*
Sepsis	7	0.0	27.5	*	0.0	34.1	*	28.6	39.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	0.0	2.4	*	0.0	4.4	*	0.0	6.6	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	6	16.7	4.8	*	16.7	9.3	*	16.7	12.3	*
Open Reduction of Hip Fracture	3	0.0	5.4	*	0.0	10.9	*	0.0	14.8	*
Prostatectomy	43	0.0	0.7	*	0.0	1.8	*	2.3	3.1	*
Cholecystectomy	8	0.0	3.0	*	0.0	5.5	*	0.0	7.1	*
Hysterectomy	3	0.0	0.4	*	0.0	0.7	*	0.0	0.9	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	555	11.4	10.8	1.4	17.1	16.2	1.9	20.0	20.1	1.8
CONDITIONS:										
Acute Myocardial Infarction	14	35.7	36.1	*	42.9	41.4	*	50.0	45.2	*
Congestive Heart Failure	36	16.7	17.7	*	25.0	26.7	*	27.8	33.7	*
Pneumonia/Influenza	19	15.8	22.3	*	21.1	29.6	*	26.3	34.7	*
Chronic Obstructive Pulmonary Disease	14	35.7	13.2	*	42.9	22.0	*	42.9	29.0	*
Transient Cerebral Ischemia	6	0.0	1.4	*	0.0	3.1	*	0.0	4.9	*
Stroke	34	44.1	21.9	*	44.1	29.9	*	50.0	34.6	*
Hip Fracture	16	12.5	7.8	*	25.0	14.6	*	25.0	18.8	*
Sepsis	11	18.2	22.7	*	27.3	30.1	*	27.3	36.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	14	14.3	4.3	*	21.4	8.4	*	21.4	11.2	*
Open Reduction of Hip Fracture	8	0.0	6.5	*	12.5	12.4	*	12.5	16.2	*
Prostatectomy	28	0.0	0.8	*	0.0	2.0	*	0.0	3.4	*
Cholecystectomy	18	0.0	2.1	*	0.0	3.4	*	0.0	4.3	*
Hysterectomy	0									

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

ALPENA GENERAL HOSPITAL

1501-1511 W Chisholm St
Alpena, MI 49707

Medicare Provider Number: 230036

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	1,506	8.4	7.9	1.3	13.1	12.0	1.2	16.1	15.4	1.2
CONDITIONS:										
Acute Myocardial Infarction	52	26.9	21.5	7.7	32.7	24.8	8.9	34.6	28.1	8.8
Congestive Heart Failure	88	13.6	14.1	4.0	21.6	22.3	4.7	25.0	29.2	6.9
Pneumonia/Influenza	68	16.2	15.7	4.6	26.5	21.8	6.0	32.4	26.5	7.2
Chronic Obstructive Pulmonary Disease	16	6.3	6.0	*	12.5	10.8	*	12.5	15.4	*
Transient Cerebral Ischemia	25	0.0	1.2	*	0.0	2.6	*	4.0	4.2	*
Stroke	59	16.9	19.5	5.8	23.7	25.5	6.5	30.5	29.8	6.3
Hip Fracture	35	0.0	5.5	*	2.9	10.3	*	2.9	13.6	*
Sepsis	18	27.8	25.4	*	38.9	33.1	*	44.4	38.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	6	0.0	2.0	*	0.0	3.9	*	0.0	5.9	*
Carotid Endarterectomy	6	0.0	1.4	*	0.0	2.8	*	0.0	4.4	*
Hip Replacement/Reconstruction	28	0.0	1.8	*	0.0	3.4	*	0.0	4.6	*
Open Reduction of Hip Fracture	22	0.0	5.4	*	4.5	10.5	*	4.5	14.1	*
Prostatectomy	44	2.3	0.8	*	2.3	2.0	*	9.1	3.6	*
Cholecystectomy	34	0.0	1.6	*	0.0	2.7	*	0.0	3.6	*
Hysterectomy	12	8.3	0.4	*	8.3	0.9	*	8.3	1.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	176
Occupancy Rate	57
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	55
Percent of Physicians Board Certified Specialists	69
Medical Residents/Interns	0
Registered Nurses	110
Licensed Practical Nurses	59

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

ALPENA GENERAL HOSPITAL

Medicare Provider Number: 230036

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,449	8.4	8.6	0.9	13.1	12.7	1.0	16.7	16.0	1.0
CONDITIONS:										
Acute Myocardial Infarction	73	20.5	21.8	5.0	24.7	25.3	5.8	27.4	28.8	5.6
Congestive Heart Failure	87	14.9	13.5	3.9	21.8	20.8	4.4	25.3	27.1	6.0
Pneumonia/Influenza	69	13.0	14.8	4.5	21.7	20.2	5.9	24.6	24.6	5.3
Chronic Obstructive Pulmonary Disease	14	14.3	5.8	*	42.9	10.9	*	50.0	15.4	*
Transient Cerebral Ischemia	27	0.0	1.5	*	0.0	3.6	*	7.4	6.0	*
Stroke	57	12.3	19.0	7.7	21.1	25.5	8.5	24.6	29.9	9.5
Hip Fracture	39	2.6	6.4	*	7.7	11.6	*	10.3	15.0	*
Sepsis	26	15.4	32.3	*	38.5	40.1	*	38.5	46.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	9	0.0	13.4	*	11.1	18.4	*	11.1	21.9	*
Carotid Endarterectomy	11	0.0	1.2	*	0.0	2.3	*	0.0	3.4	*
Hip Replacement/Reconstruction	43	2.3	3.2	*	2.3	5.8	*	2.3	7.8	*
Open Reduction of Hip Fracture	15	0.0	7.7	*	13.3	14.2	*	20.0	18.2	*
Prostatectomy	39	2.6	0.9	*	2.6	2.2	*	5.1	3.9	*
Cholecystectomy	29	3.4	1.8	*	3.4	3.4	*	3.4	4.7	*
Hysterectomy	11	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,355	8.3	8.5	0.8	13.0	12.8	1.1	16.1	16.2	1.0
CONDITIONS:										
Acute Myocardial Infarction	68	17.6	26.0	7.8	19.1	29.1	8.5	22.1	32.4	9.1
Congestive Heart Failure	82	23.2	15.6	6.5	31.7	24.1	8.0	37.8	31.1	8.0
Pneumonia/Influenza	56	8.9	15.5	7.8	16.1	21.5	7.3	23.2	26.5	7.0
Chronic Obstructive Pulmonary Disease	10	0.0	7.3	*	0.0	11.8	*	0.0	15.5	*
Transient Cerebral Ischemia	12	0.0	2.0	*	0.0	4.3	*	0.0	6.7	*
Stroke	46	15.2	21.3	*	17.4	28.2	*	21.7	32.6	*
Hip Fracture	36	5.6	6.2	*	8.3	11.2	*	13.9	14.5	*
Sepsis	7	28.6	27.8	*	28.6	35.6	*	28.6	41.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	0.0	4.7	*	0.0	9.3	*	0.0	13.2	*
Carotid Endarterectomy	10	0.0	1.6	*	10.0	2.8	*	10.0	3.9	*
Hip Replacement/Reconstruction	29	3.4	2.1	*	3.4	4.1	*	3.4	5.7	*
Open Reduction of Hip Fracture	28	3.6	5.4	*	7.1	10.1	*	14.3	13.3	*
Prostatectomy	47	0.0	0.7	*	0.0	1.8	*	2.1	3.2	*
Cholecystectomy	32	0.0	2.7	*	0.0	4.7	*	3.1	6.0	*
Hysterectomy	9	0.0	1.1	*	0.0	2.6	*	0.0	4.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

ANDERSON MEMORIAL HOSPITAL

400 Main St
Norway, MI 49870

Medicare Provider Number: 230138

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	193	7.3	9.0	2.8	11.9	14.1	4.3	14.5	18.1	4.4
CONDITIONS:										
Acute Myocardial Infarction	6	33.3	19.9	*	50.0	23.3	*	50.0	26.8	*
Congestive Heart Failure	15	20.0	14.1	*	26.7	21.3	*	26.7	27.9	*
Pneumonia/Influenza	19	5.3	13.2	*	10.5	19.2	*	21.1	23.8	*
Chronic Obstructive Pulmonary Disease	2	0.0	6.0	*	50.0	11.1	*	50.0	15.5	*
Transient Cerebral Ischemia	2	0.0	1.4	*	0.0	3.0	*	0.0	4.7	*
Stroke	11	27.3	24.7	*	36.4	33.3	*	36.4	39.1	*
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1988

Total Beds	19
Ownership/Control	Local Government

STAFFING:

Medical Residents/Interns	0
Registered Nurses	5
Licensed Practical Nurses	6

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	No
Hospice	No
Intensive Care Unit	No
Organ Transplant	No
Rehabilitation	No
Shock Trauma	No

** **Not used in calculating hospital mortality rates.**

ANDERSON MEMORIAL HOSPITAL

Medicare Provider Number: 230138

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	185	7.6	9.7	3.0	14.1	14.7	3.1	17.8	18.6	3.0
CONDITIONS:										
Acute Myocardial Infarction	4	25.0	32.1	*	25.0	34.6	*	25.0	37.4	*
Congestive Heart Failure	15	6.7	14.7	*	6.7	22.0	*	20.0	28.5	*
Pneumonia/Influenza	10	0.0	17.2	*	20.0	24.3	*	30.0	29.9	*
Chronic Obstructive Pulmonary Disease	4	0.0	8.6	*	25.0	13.5	*	25.0	17.6	*
Transient Cerebral Ischemia	6	16.7	2.1	*	16.7	5.1	*	16.7	8.4	*
Stroke	10	10.0	18.5	*	20.0	24.4	*	30.0	29.0	*
Hip Fracture	0									
Sepsis	1	0.0	16.9	*	0.0	22.2	*	0.0	27.1	*
PROCEDURE:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	169	7.1	9.2	2.7	12.4	13.7	3.0	14.8	17.6	4.4
CONDITIONS:										
Acute Myocardial Infarction	5	40.0	33.9	*	40.0	39.1	*	40.0	43.5	*
Congestive Heart Failure	16	12.5	17.7	*	18.8	25.7	*	25.0	32.2	*
Pneumonia/Influenza	8	25.0	16.5	*	37.5	23.8	*	50.0	29.5	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	4	0.0	1.3	*	0.0	2.7	*	0.0	4.3	*
Stroke	10	20.0	28.4	*	30.0	36.6	*	30.0	42.6	*
Hip Fracture	2	0.0	5.1	*	0.0	9.4	*	0.0	12.5	*
Sepsis	1	0.0	24.7	*	0.0	29.2	*	0.0	34.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

ANNAPOLIS HOSPITAL

33155 Annapolis Ave
Wayne, MI 48184

Medicare Provider Number: 230142

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	1,678	10.1	9.8	0.8	14.6	14.5	0.9	18.1	18.1	1.0
CONDITIONS:										
Acute Myocardial Infarction	44	34.1	25.1	*	36.4	28.5	*	40.9	31.9	*
Congestive Heart Failure	103	21.4	17.2	7.0	34.0	26.2	6.6	37.9	33.2	5.5
Pneumonia/Influenza	91	23.1	18.5	6.2	29.7	24.5	9.1	34.1	29.3	9.0
Chronic Obstructive Pulmonary Disease	30	6.7	12.3	*	13.3	18.6	*	16.7	23.8	*
Transient Cerebral Ischemia	47	2.1	2.5	*	4.3	5.6	*	6.4	8.8	*
Stroke	82	17.1	20.4	5.5	25.6	27.4	5.8	34.1	31.9	6.8
Hip Fracture	29	6.9	7.2	*	13.8	13.1	*	13.8	17.2	*
Sepsis	20	25.0	36.8	*	40.0	48.3	*	45.0	55.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	13	0.0	3.0	*	0.0	6.7	*	23.1	10.3	*
Carotid Endarterectomy	5	0.0	1.0	*	0.0	1.7	*	0.0	2.4	*
Hip Replacement/Reconstruction	11	18.2	4.4	*	27.3	8.6	*	27.3	11.5	*
Open Reduction of Hip Fracture	13	7.7	6.8	*	7.7	12.4	*	7.7	16.2	*
Prostatectomy	87	1.1	1.1	1.1	1.1	2.6	1.8	2.3	4.2	2.4
Cholecystectomy	30	6.7	2.6	*	6.7	4.1	*	6.7	5.1	*
Hysterectomy	11	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	276
Occupancy Rate	49
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	131
Percent of Physicians Board Certified Specialists	56
Medical Residents/Interns	0
Registered Nurses	192
Licensed Practical Nurses	38

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

ANNAPOLIS HOSPITAL

Medicare Provider Number: 230142

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,727	10.0	11.1	1.0	15.3	15.9	1.1	18.8	19.6	1.1
CONDITIONS:										
Acute Myocardial Infarction	57	38.6	35.3	7.7	42.1	39.1	7.5	43.9	42.9	6.6
Congestive Heart Failure	126	20.6	16.9	4.7	33.3	25.8	7.6	40.5	32.9	8.0
Pneumonia/Influenza	70	11.4	19.0	8.4	18.6	25.2	8.8	21.4	29.9	9.6
Chronic Obstructive Pulmonary Disease	17	5.9	18.4	*	11.8	25.2	*	11.8	30.4	*
Transient Cerebral Ischemia	49	2.0	2.1	*	8.2	4.3	*	12.2	6.6	*
Stroke	62	21.0	22.9	7.8	29.0	29.1	6.3	35.5	33.5	6.4
Hip Fracture	21	23.8	7.9	*	33.3	13.8	*	47.6	17.3	*
Sepsis	17	11.8	33.7	*	11.8	43.2	*	17.6	49.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	15	6.7	3.9	*	6.7	7.8	*	6.7	11.5	*
Carotid Endarterectomy	10	10.0	1.5	*	10.0	2.7	*	10.0	3.9	*
Hip Replacement/Reconstruction	8	12.5	7.6	*	25.0	14.0	*	37.5	17.8	*
Open Reduction of Hip Fracture	12	25.0	6.3	*	33.3	11.5	*	41.7	14.7	*
Prostatectomy	81	0.0	0.7	*	0.0	1.8	*	0.0	3.0	*
Cholecystectomy	28	0.0	2.5	*	0.0	4.3	*	0.0	5.4	*
Hysterectomy	11	0.0	0.3	*	0.0	0.7	*	0.0	1.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,837	9.6	10.5	1.3	15.0	15.4	1.5	18.6	19.2	1.5
CONDITIONS:										
Acute Myocardial Infarction	54	37.0	32.4	10.3	40.7	35.9	10.7	42.6	39.4	9.8
Congestive Heart Failure	120	15.8	18.8	4.7	24.2	28.2	7.2	31.7	35.5	7.9
Pneumonia/Influenza	93	22.6	21.5	4.3	31.2	28.8	5.9	34.4	34.3	6.5
Chronic Obstructive Pulmonary Disease	46	10.9	16.3	*	23.9	25.4	*	32.6	31.4	*
Transient Cerebral Ischemia	60	0.0	2.5	3.5	3.3	5.2	4.4	8.3	7.9	4.8
Stroke	72	13.9	23.6	7.4	22.2	30.9	7.3	33.3	35.6	6.7
Hip Fracture	29	10.3	6.8	*	13.8	11.6	*	13.8	14.8	*
Sepsis	15	20.0	32.9	*	26.7	41.4	*	33.3	47.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	16	6.3	5.6	*	6.3	9.2	*	12.5	12.2	*
Carotid Endarterectomy	19	0.0	1.6	*	0.0	2.9	*	0.0	4.2	*
Hip Replacement/Reconstruction	7	0.0	5.5	*	14.3	9.9	*	14.3	12.6	*
Open Reduction of Hip Fracture	18	5.6	5.3	*	5.6	9.6	*	5.6	12.6	*
Prostatectomy	88	0.0	1.0	1.4	1.1	2.4	2.4	2.3	4.0	3.3
Cholecystectomy	26	3.8	2.9	*	3.8	5.4	*	3.8	7.2	*
Hysterectomy	11	0.0	0.3	*	0.0	0.8	*	0.0	1.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

BARAGA COUNTY MEMORIAL HOSPITAL

770 North Main Street
L Anse, MI 49946

Medicare Provider Number: 230056

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	396	4.8	7.3	2.1	8.8	11.4	2.7	12.1	15.0	3.1
CONDITIONS:										
Acute Myocardial Infarction	13	23.1	23.2	*	23.1	26.4	*	23.1	29.6	*
Congestive Heart Failure	31	6.5	14.5	*	16.1	22.0	*	19.4	28.5	*
Pneumonia/Influenza	16	6.3	13.5	*	6.3	19.0	*	6.3	23.6	*
Chronic Obstructive Pulmonary Disease	9	0.0	5.8	*	0.0	12.2	*	11.1	18.6	*
Transient Cerebral Ischemia	16	0.0	1.6	*	6.3	3.4	*	6.3	5.3	*
Stroke	22	22.7	18.1	*	31.8	23.4	*	40.9	27.6	*
Hip Fracture	3	0.0	6.4	*	0.0	11.6	*	0.0	14.9	*
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	11	0.0	1.5	*	9.1	3.9	*	9.1	6.9	*
Cholecystectomy	7	0.0	4.3	*	0.0	7.2	*	0.0	9.3	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	61
Occupancy Rate	71
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	8
Percent of Physicians Board Certified Specialists	88
Medical Residents/Interns	0
Registered Nurses	13
Licensed Practical Nurses	14

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

BARAGA COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 230056

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	409	7.3	8.5	1.7	13.2	13.1	1.8	15.9	16.9	2.3
CONDITIONS:										
Acute Myocardial Infarction	10	10.0	25.6	*	10.0	28.1	*	10.0	31.1	*
Congestive Heart Failure	28	14.3	14.7	*	35.7	22.3	*	39.3	29.0	*
Pneumonia/Influenza	20	5.0	13.2	*	5.0	17.7	*	5.0	21.7	*
Chronic Obstructive Pulmonary Disease	13	7.7	8.7	*	30.8	15.1	*	30.8	20.5	*
Transient Cerebral Ischemia	16	0.0	2.1	*	6.3	4.6	*	6.3	7.4	*
Stroke	14	28.6	21.0	*	42.9	27.2	*	42.9	32.1	*
Hip Fracture	2	0.0	9.9	*	0.0	18.5	*	0.0	24.7	*
Sepsis	8	25.0	26.5	*	25.0	35.2	*	37.5	42.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bvpass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	9	0.0	2.6	*	0.0	6.2	*	22.2	9.8	*
Cholecystectomy	3	0.0	1.1	*	0.0	2.0	*	0.0	2.8	*
Hysterectomy	2	0.0	0.3	*	0.0	0.5	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	388	9.0	8.5	1.9	11.6	12.7	2.2	13.4	16.3	2.8
CONDITIONS:										
Acute Myocardial Infarction	18	33.3	27.5	*	38.9	30.2	*	38.9	33.4	*
Congestive Heart Failure	24	12.5	15.0	*	12.5	21.6	*	20.8	27.9	*
Pneumonia/Influenza	11	18.2	12.6	*	18.2	17.1	*	18.2	20.9	*
Chronic Obstructive Pulmonary Disease	12	0.0	5.7	*	16.7	12.5	*	16.7	19.0	*
Transient Cerebral Ischemia	14	0.0	2.7	*	0.0	6.3	*	0.0	10.1	*
Stroke	20	15.0	17.5	*	20.0	23.4	*	20.0	28.1	*
Hip Fracture	6	0.0	6.5	*	0.0	11.5	*	0.0	15.1	*
Sepsis	4	0.0	21.7	*	25.0	30.8	*	25.0	38.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	5.5	*	0.0	11.7	*	0.0	16.5	*
Open Reduction of Hip Fracture	0									
Prostatectomy	10	0.0	0.7	*	0.0	1.6	*	0.0	2.6	*
Cholecystectomy	3	0.0	1.1	*	0.0	1.7	*	0.0	2.2	*
Hysterectomy	2	0.0	0.8	*	0.0	1.7	*	0.0	2.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

BATTLE CREEK ADVENTIST HOSPITAL

165 North Washington Ave
Battle Creek, MI 49016

Medicare Provider Number: 230043

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	2	0.0	0.4	*	0.0	0.7	*	0.0	0.9	*
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	124
Occupancy Rate	65
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	11
Percent of Physicians Board Certified Specialists	45
Medical Residents/Interns	0
Registered Nurses	57
Licensed Practical Nurses	4

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

BATTLE CREEK ADVENTIST HOSPITAL

Medicare Provider Number: 230043

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	7	0.0	0.6	*	0.0	1.2	*	0.0	1.7	*
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	14	0.0	0.7	*	0.0	1.5	*	0.0	2.3	*
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

BATTLE CREEK HEALTH SYSTEM

300 North Avenue
Battle Creek, MI 49016

Medicare Provider Number: 230075

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,028	10.8	10.2	0.8	15.5	15.1	0.8	18.8	18.9	0.7
CONDITIONS:										
Acute Myocardial Infarction	85	28.2	27.7	5.2	30.6	31.6	5.2	35.3	35.2	5.2
Congestive Heart Failure	146	17.8	16.3	3.4	24.7	25.4	4.0	31.5	32.6	4.1
Pneumonia/Influenza	197	19.8	16.8	4.1	27.4	22.8	5.6	30.5	27.5	4.8
Chronic Obstructive Pulmonary Disease	46	2.2	5.9	*	8.7	10.4	*	13.0	14.3	*
Transient Cerebral Ischemia	36	5.6	2.0	*	11.1	4.5	*	13.9	7.2	*
Stroke	116	24.1	25.9	4.3	32.8	32.5	4.4	34.5	37.2	4.9
Hip Fracture	104	11.5	7.4	5.0	15.4	13.2	5.4	20.2	16.9	6.6
Sepsis	56	25.0	27.1	6.0	26.8	35.3	7.3	32.1	41.4	7.8
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	27	3.7	3.6	*	11.1	7.2	*	22.2	10.7	*
Carotid Endarterectomy	26	0.0	1.3	*	0.0	2.5	*	0.0	3.6	*
Hip Replacement/Reconstruction	55	5.5	3.8	3.1	7.3	6.9	3.8	9.1	9.1	3.9
Open Reduction of Hip Fracture	54	3.7	6.7	4.6	7.4	12.6	6.8	13.0	16.4	5.8
Prostatectomy	125	0.8	1.0	1.3	4.0	2.4	1.8	4.8	4.0	2.0
Cholecystectomy	53	7.5	2.5	4.4	7.5	4.7	3.9	7.5	6.4	3.9
Hysterectomy	12	0.0	1.8	*	8.3	3.6	*	8.3	4.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	419
Occupancy Rate	68
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	150
Percent of Physicians Board Certified Specialists	67
Medical Residents/Interns	0
Registered Nurses	338
Licensed Practical Nurses	83

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

BATTLE CREEK HEALTH SYSTEM

Medicare Provider Number: 230075

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,216	10.4	10.6	0.9	16.2	15.7	1.0	20.3	19.9	0.9
CONDITIONS:										
Acute Myocardial Infarction	64	32.8	32.1	6.3	37.5	35.4	6.4	40.6	39.1	6.2
Congestive Heart Failure	102	16.7	17.0	4.0	27.5	25.7	4.6	31.4	32.7	5.7
Pneumonia/Influenza	123	19.5	18.2	3.7	25.2	24.5	4.3	30.9	29.4	4.7
Chronic Obstructive Pulmonary Disease	27	11.1	7.3	*	11.1	12.2	*	14.8	16.6	*
Transient Cerebral Ischemia	20	5.0	1.8	*	15.0	3.9	*	20.0	6.2	*
Stroke	93	22.6	25.3	5.3	31.2	31.5	4.8	35.5	36.2	5.0
Hip Fracture	62	8.1	8.1	3.6	14.5	14.3	5.6	16.1	18.0	6.9
Sepsis	34	32.4	28.9	*	50.0	37.7	*	55.9	44.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	20	10.0	8.6	*	10.0	12.2	*	10.0	15.3	*
Carotid Endarterectomy	22	9.1	1.2	*	9.1	2.2	*	9.1	3.1	*
Hip Replacement/Reconstruction	37	2.7	3.2	*	2.7	6.2	*	5.4	8.4	*
Open Reduction of Hip Fracture	30	6.7	8.1	*	13.3	14.8	*	13.3	18.9	*
Prostatectomy	93	0.0	1.8	2.5	0.0	4.2	5.5	6.5	6.5	3.6
Cholecystectomy	58	3.4	3.1	2.3	8.6	6.0	3.5	12.1	8.2	4.9
Hysterectomy	15	0.0	0.6	*	0.0	1.4	*	0.0	2.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,880	9.7	10.1	1.0	15.2	15.4	1.4	18.7	19.5	1.4
CONDITIONS:										
Acute Myocardial Infarction	45	26.7	33.2	*	31.1	36.7	*	33.3	40.3	*
Congestive Heart Failure	87	18.4	17.1	4.5	26.4	25.9	4.7	32.2	33.1	5.1
Pneumonia/Influenza	106	16.0	18.1	5.1	22.6	24.3	6.1	28.3	29.4	4.7
Chronic Obstructive Pulmonary Disease	38	5.3	11.6	*	13.2	18.3	*	21.1	23.4	*
Transient Cerebral Ischemia	17	0.0	2.0	*	0.0	4.2	*	0.0	6.6	*
Stroke	67	14.9	25.0	6.6	16.4	31.9	7.9	20.9	36.7	8.3
Hip Fracture	51	3.9	7.4	4.9	13.7	13.3	6.0	15.7	17.2	5.5
Sepsis	23	34.8	27.6	*	34.8	34.9	*	39.1	40.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	14	0.0	4.1	*	21.4	7.3	*	21.4	10.2	*
Carotid Endarterectomy	27	0.0	1.3	*	0.0	2.4	*	0.0	3.5	*
Hip Replacement/Reconstruction	43	0.0	4.2	*	4.7	8.1	*	9.3	11.1	*
Open Reduction of Hip Fracture	22	0.0	7.4	*	18.2	13.9	*	18.2	18.2	*
Prostatectomy	81	1.2	1.4	1.4	4.9	3.3	2.2	8.6	5.3	3.3
Cholecystectomy	39	5.1	2.0	*	7.7	4.0	*	7.7	5.6	*
Hysterectomy	7	14.3	0.5	*	14.3	1.1	*	14.3	1.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

BAY MEDICAL CENTER

1900 Columbus Ave
Bay City, MI 48706

Medicare Provider Number: 230041

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,406	7.4	7.8	0.5	11.6	12.0	0.6	14.3	15.5	0.7
CONDITIONS:										
Acute Myocardial Infarction	85	29.4	26.5	6.2	32.9	29.7	6.3	34.1	32.9	5.8
Congestive Heart Failure	188	18.6	14.9	3.6	26.1	23.2	4.0	30.3	30.1	3.4
Pneumonia/Influenza	119	10.1	16.6	4.9	22.7	22.7	3.8	26.1	27.6	4.2
Chronic Obstructive Pulmonary Disease	41	17.1	7.8	*	22.0	14.6	*	26.8	20.7	*
Transient Cerebral Ischemia	99	0.0	1.8	2.1	2.0	3.9	2.5	4.0	6.2	3.1
Stroke	111	17.1	19.4	4.9	31.5	25.4	5.0	32.4	29.5	6.0
Hip Fracture	59	6.8	6.5	5.0	13.6	11.2	5.3	15.3	14.3	4.6
Sepsis	25	16.0	33.4	*	24.0	43.5	*	40.0	51.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	13	7.7	4.5	*	7.7	7.6	*	7.7	10.3	*
Carotid Endarterectomy	41	2.4	1.8	*	4.9	3.6	*	7.3	5.4	*
Hip Replacement/Reconstruction	50	2.0	1.9	*	2.0	3.6	*	2.0	4.8	*
Open Reduction of Hip Fracture	31	6.5	6.3	*	16.1	11.3	*	19.4	14.5	*
Prostatectomy	103	0.0	1.2	1.4	1.9	3.0	2.2	1.9	5.0	3.2
Cholecystectomy	46	2.2	3.2	*	2.2	5.7	*	4.3	7.3	*
Hysterectomy	21	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	414
Occupancy Rate	71
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	120
Percent of Physicians Board Certified Specialists	66
Medical Residents/Interns	5
Registered Nurses	310
Licensed Practical Nurses	100

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

BAY MEDICAL CENTER

Medicare Provider Number: 230041

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,009	8.3	7.9	0.6	12.8	12.1	0.8	16.0	15.5	0.9
CONDITIONS:										
Acute Myocardial Infarction	91	34.1	29.1	6.8	37.4	32.3	8.1	42.9	35.7	8.4
Congestive Heart Failure	136	19.9	15.5	4.0	30.1	23.7	6.1	37.5	30.5	6.0
Pneumonia/Influenza	104	13.5	18.6	6.1	22.1	25.1	6.0	25.0	30.0	6.4
Chronic Obstructive Pulmonary Disease	19	10.5	14.4	*	21.1	22.6	*	36.8	28.3	*
Transient Cerebral Ischemia	128	1.6	1.8	1.3	3.1	3.8	1.9	3.1	5.8	2.7
Stroke	71	25.4	22.8	9.8	36.6	29.2	11.4	40.8	33.6	13.3
Hip Fracture	56	0.0	6.8	5.7	10.7	12.3	4.9	17.9	15.8	5.2
Sepsis	24	25.0	27.0	*	33.3	34.7	*	37.5	40.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	9	33.3	11.9	*	33.3	15.0	*	33.3	18.1	*
Carotid Endarterectomy	35	0.0	1.6	*	2.9	3.0	*	5.7	4.5	*
Hip Replacement/Reconstruction	42	0.0	3.0	*	9.5	5.6	*	14.3	7.2	*
Open Reduction of Hip Fracture	31	0.0	5.7	*	3.2	11.0	*	6.5	14.6	*
Prostatectomy	66	3.0	0.8	2.7	3.0	1.9	2.3	3.0	3.2	2.2
Cholecystectomy	42	4.8	4.0	*	7.1	7.5	*	7.1	10.0	*
Hysterectomy	22	0.0	0.3	*	0.0	0.7	*	0.0	0.9	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,805	8.2	8.4	0.5	12.6	12.6	0.6	15.6	16.1	0.8
CONDITIONS:										
Acute Myocardial Infarction	86	33.7	29.5	11.2	38.4	32.9	10.1	40.7	36.3	8.4
Congestive Heart Failure	148	18.9	18.3	4.2	31.8	27.6	8.3	39.9	35.2	7.4
Pneumonia/Influenza	80	15.0	18.0	5.3	20.0	24.4	7.5	23.7	29.5	7.6
Chronic Obstructive Pulmonary Disease	38	13.2	13.1	*	15.8	21.7	*	21.1	28.0	*
Transient Cerebral Ischemia	144	0.7	1.7	1.3	2.8	3.5	1.8	4.9	5.2	1.9
Stroke	103	18.4	21.9	5.0	30.1	28.5	4.8	31.1	33.0	6.2
Hip Fracture	48	4.2	7.2	*	10.4	13.0	*	14.6	16.9	*
Sepsis	15	26.7	38.5	*	33.3	48.0	*	40.0	55.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	19	0.0	4.6	*	0.0	7.7	*	0.0	10.4	*
Carotid Endarterectomy	34	0.0	1.7	*	5.9	3.2	*	5.9	4.6	*
Hip Replacement/Reconstruction	33	3.0	2.7	*	6.1	4.9	*	9.1	6.4	*
Open Reduction of Hip Fracture	21	0.0	6.7	*	9.5	12.6	*	14.3	16.5	*
Prostatectomy	84	0.0	0.9	1.4	2.4	2.2	1.7	3.6	3.8	2.2
Cholecystectomy	55	3.6	2.6	2.6	5.5	4.3	3.2	5.5	5.5	3.6
Hysterectomy	20	0.0	0.3	*	0.0	0.5	*	0.0	0.7	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

BAY MEDICAL CENTER
1900 Columbus Avenue
Bay City, Michigan
48708

January 7, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

RE: Medicare I.D.# 230041

Dear Mrs. Kappert:

Representatives of the hospital's Quality Assurance and Medical Staff have reviewed the mortality information from HCFA about Medicare patients discharged from Bay Medical Center (BMC) in fiscal year 1989. The following comments are submitted for your consideration:

DATA VERIFICATION:

Our records indicate the number of Medicare discharges to be significantly higher in FY, 1989 than the figures released by HCFA. Presumably, the discrepancy reflects multiple admissions of individual beneficiaries to BMC.

It is impossible to determine the cause of death in most of the patients dying after discharge from Bay Medical Center.

DATA INTERPRETATION:

Our actual mortality rate, as reported by HCFA, continues to fall within or below the range of predicted mortality rate for the diagnoses and procedures reported. Again this year, our assessment notes the following general factors affecting our overall Medicare mortality rate:

1. A significant number of the patient's who died were terminally ill and the family had requested "Do not resuscitate" orders during their admission.
2. The average age of the patients who died was over 75 years; and
3. A significant number of the patients who died had multiple comorbid conditions.

In August of 1988, Bay Osteopathic Hospital (BOH) announced its intent to pursue merger with BMC. This merger occurred on December 19, 1988. After that date, Bay Medical Center became the sole community provider caring for a significant portion of the severely ill patients from this area.

The specific information released by HCFA is of limited value to BMC in identifying areas for review, and although it may be interesting to the general public, it should not be considered a quality indicator for the following reasons:

1. There is no comparison between Medicare and non-Medicare patients.
2. There is no indication of the process of care.
3. There is no direct correlation between quality of care and mortality.
4. There is no identification of underlying cause of illness.
5. There is no measure of severity of illness.

SUMMARY:

Bay Medical Center has a long standing commitment to ensuring the highest quality of care for our patients. We have voluntarily maintained accreditation through the Joint Commission on Accreditation of Healthcare Organizations. This commitment is carried out through the operation of a comprehensive Quality Assurance Program. This program is under the overall direction of the Board of Directors and is implemented and carried out by its Medical and Dental Staff and Administration. It is designed to objectively and systematically monitor and evaluate the quality and appropriateness of care, pursue opportunities to improve care, and to resolve identified problems. This program incorporates not only mortality review but a vast array of other peer review activities undertaken by both the Medical and Professional staffs of the hospital. Mortality review is only one element of a comprehensive occurrence screening program conducted at BMC which monitors adverse patient events that are not a natural consequence of the patient's disease, condition, or procedure. Such events are reviewed to identify trends, opportunities to correct problems and to encourage and focus productive communication among the professional and medical staff. It is decentralized to all levels of the organization with the principal responsibility being that of the respective hospital and Medical Staff departments.

BMC continues to support the efforts of the American Hospital Association, Joint Commission on Accreditation of Healthcare Organizations, and other organizations that are investigating objective methods of evaluating hospital quality that rely on measures other than mortality rates. We have been and shall continue to be committed to any activities that can assure our public of the highest quality of care and will insist upon their development.

Yours very truly,

Anthony Armstrong
President

BAY OSTEOPATHIC HOSPITAL

3250 E Midland Road
Bay City, MI 48706

Medicare Provider Number: 230256

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	104	8.7	8.4	2.8	13.5	13.3	3.7	17.3	17.1	3.7
CONDITIONS:										
Acute Myocardial Infarction	2	50.0	23.8	*	50.0	25.9	*	50.0	28.8	*
Congestive Heart Failure	5	40.0	19.3	*	40.0	30.1	*	40.0	38.6	*
Pneumonia/Influenza	2	0.0	12.6	*	0.0	17.0	*	0.0	20.9	*
Chronic Obstructive Pulmonary Disease	2	0.0	10.6	*	0.0	20.2	*	0.0	28.2	*
Transient Cerebral Ischemia	2	0.0	1.8	*	0.0	4.2	*	0.0	6.5	*
Stroke	2	0.0	30.2	*	50.0	34.6	*	50.0	38.3	*
Hip Fracture	5	20.0	5.9	*	20.0	11.1	*	20.0	14.9	*
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	4.6	*	0.0	9.7	*	0.0	13.7	*
Open Reduction of Hip Fracture	2	50.0	6.8	*	50.0	13.2	*	50.0	17.8	*
Prostatectomy	2	0.0	1.5	*	0.0	3.7	*	0.0	6.4	*
Cholecystectomy	2	0.0	0.7	*	0.0	1.2	*	0.0	1.6	*
Hysterectomy	2	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1988

Total Beds	86
Ownership/Control	Private, Non-Profit

STAFFING:

Medical Residents/Interns	0
Registered Nurses	49
Licensed Practical Nurses	26

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	Yes
Hospice	Yes
Intensive Care Unit	Yes
Organ Transplant	No
Rehabilitation	No
Shock Trauma	No

**** Not used in calculating hospital mortality rates.**

BAY OSTEOPATHIC HOSPITAL

Medicare Provider Number: 230256

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	507	8.1	8.3	2.2	14.4	12.8	2.2	17.9	16.4	3.0
CONDITIONS:										
Acute Myocardial Infarction	13	7.7	31.2	*	7.7	34.7	*	7.7	38.1	*
Congestive Heart Failure	44	27.3	16.4	*	34.1	25.0	*	36.4	31.9	*
Pneumonia/Influenza	24	4.2	18.2	*	16.7	25.1	*	25.0	30.1	*
Chronic Obstructive Pulmonary Disease	5	0.0	7.5	*	0.0	14.1	*	40.0	19.4	*
Transient Cerebral Ischemia	15	0.0	2.5	*	6.7	5.5	*	13.3	8.9	*
Stroke	12	16.7	17.0	*	25.0	24.8	*	41.7	29.7	*
Hip Fracture	9	11.1	9.0	*	22.2	15.7	*	44.4	19.7	*
Sepsis	0									
PROCEDURE:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	2.9	*	0.0	7.2	*	0.0	11.6	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	25.0	4.9	*	25.0	9.1	*	50.0	11.6	*
Open Reduction of Hip Fracture	6	0.0	8.7	*	16.7	16.0	*	33.3	20.6	*
Prostatectomy	16	0.0	0.5	*	6.3	1.4	*	6.3	2.4	*
Cholecystectomy	7	0.0	2.6	*	0.0	4.2	*	0.0	4.9	*
Hysterectomy	7	0.0	0.2	*	0.0	0.6	*	0.0	0.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	546	11.5	7.7	1.6	16.5	12.1	1.9	20.3	15.7	2.1
CONDITIONS:										
Acute Myocardial Infarction	14	35.7	27.0	*	35.7	29.5	*	35.7	32.3	*
Congestive Heart Failure	42	35.7	16.8	*	38.1	25.6	*	50.0	32.6	*
Pneumonia/Influenza	35	8.6	16.4	*	20.0	22.2	*	22.9	27.0	*
Chronic Obstructive Pulmonary Disease	12	16.7	9.1	*	16.7	14.7	*	16.7	19.2	*
Transient Cerebral Ischemia	18	0.0	2.2	*	5.6	4.7	*	11.1	7.4	*
Stroke	9	22.2	15.3	*	33.3	22.8	*	55.6	27.5	*
Hip Fracture	16	6.3	6.6	*	18.8	12.1	*	25.0	15.6	*
Sepsis	6	16.7	23.2	*	16.7	32.6	*	50.0	39.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	0.0	1.5	*	0.0	3.4	*	0.0	5.3	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	1.2	*	0.0	2.8	*	0.0	4.1	*
Open Reduction of Hip Fracture	11	0.0	5.8	*	18.2	11.1	*	27.3	14.5	*
Prostatectomy	23	0.0	0.4	*	4.3	1.0	*	4.3	1.8	*
Cholecystectomy	13	0.0	2.7	*	0.0	4.9	*	7.7	6.3	*
Hysterectomy	6	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

BERRIEN GENERAL HOSPITAL

6418 Deans Hill Rd
Berrien Center, MI 49102

Medicare Provider Number: 230125

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	401	12.0	11.9	1.7	19.0	17.5	2.3	22.7	21.7	2.2
CONDITIONS:										
Acute Myocardial Infarction	15	46.7	34.0	*	53.3	38.1	*	53.3	42.0	*
Congestive Heart Failure	20	5.0	15.2	*	10.0	23.5	*	20.0	30.3	*
Pneumonia/Influenza	58	15.5	13.5	5.0	20.7	18.7	5.7	24.1	22.8	7.6
Chronic Obstructive Pulmonary Disease	2	0.0	5.7	*	0.0	11.0	*	0.0	16.2	*
Transient Cerebral Ischemia	3	0.0	1.1	*	0.0	2.3	*	33.3	3.7	*
Stroke	16	18.8	21.1	*	37.5	26.5	*	37.5	30.5	*
Hip Fracture	14	7.1	10.1	*	21.4	17.8	*	35.7	22.5	*
Sepsis	8	25.0	26.3	*	25.0	33.9	*	25.0	39.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	5.6	*	0.0	13.9	*	0.0	22.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	8	0.0	9.6	*	25.0	17.9	*	37.5	23.2	*
Open Reduction of Hip Fracture	7	14.3	8.5	*	28.6	15.9	*	42.9	20.6	*
Prostatectomy	2	0.0	2.9	*	0.0	8.0	*	0.0	14.1	*
Cholecystectomy	16	0.0	2.5	*	6.3	4.5	*	12.5	6.2	*
Hysterectomy	4	25.0	2.6	*	25.0	5.6	*	25.0	8.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	248
Occupancy Rate	84
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	38
Percent of Physicians Board Certified Specialists	66
Medical Residents/Interns	0
Registered Nurses	62
Licensed Practical Nurses	4

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

BERRIEN GENERAL HOSPITAL

Medicare Provider Number: 230125

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	405	16.0	13.0	3.1	22.2	19.5	3.3	25.2	24.2	2.6
CONDITIONS:										
Acute Myocardial Infarction	13	38.5	25.9	*	38.5	29.3	*	38.5	32.9	*
Congestive Heart Failure	14	7.1	20.3	*	42.9	30.3	*	50.0	38.2	*
Pneumonia/Influenza	34	32.4	21.1	*	35.3	27.9	*	38.2	32.8	*
Chronic Obstructive Pulmonary Disease	2	0.0	5.0	*	0.0	9.5	*	0.0	13.8	*
Transient Cerebral Ischemia	2	0.0	1.9	*	0.0	4.2	*	0.0	6.7	*
Stroke	14	28.6	24.5	*	28.6	33.7	*	28.6	39.2	*
Hip Fracture	8	25.0	9.5	*	25.0	18.3	*	37.5	24.4	*
Sepsis	19	26.3	22.8	*	31.6	30.7	*	31.6	36.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	4.1	*	0.0	6.9	*	0.0	9.6	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	0.0	5.3	*	0.0	10.9	*	0.0	15.1	*
Open Reduction of Hip Fracture	5	40.0	8.8	*	40.0	17.3	*	60.0	23.4	*
Prostatectomy	11	0.0	1.4	*	0.0	3.4	*	9.1	5.6	*
Cholecystectomy	12	0.0	2.1	*	0.0	3.5	*	0.0	4.4	*
Hysterectomy	2	0.0	0.1	*	0.0	0.2	*	0.0	0.4	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	407	16.7	14.5	2.1	24.1	21.1	3.2	30.0	25.9	3.4
CONDITIONS:										
Acute Myocardial Infarction	15	26.7	32.3	*	26.7	35.7	*	33.3	39.1	*
Congestive Heart Failure	18	44.4	27.9	*	55.6	40.3	*	61.1	48.4	*
Pneumonia/Influenza	35	14.3	14.9	*	17.1	20.5	*	25.7	24.9	*
Chronic Obstructive Pulmonary Disease	2	0.0	4.3	*	0.0	7.3	*	0.0	10.4	*
Transient Cerebral Ischemia	2	0.0	1.3	*	0.0	2.8	*	0.0	4.4	*
Stroke	22	18.2	24.1	*	27.3	31.5	*	27.3	36.3	*
Hip Fracture	14	14.3	8.1	*	28.6	14.5	*	28.6	18.6	*
Sepsis	22	31.8	26.4	*	54.5	36.3	*	68.2	43.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	9.0	*	50.0	17.8	*	50.0	25.5	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	7	14.3	3.0	*	14.3	6.0	*	14.3	8.3	*
Open Reduction of Hip Fracture	11	9.1	7.6	*	27.3	14.4	*	27.3	19.0	*
Prostatectomy	6	0.0	1.4	*	0.0	3.5	*	0.0	5.8	*
Cholecystectomy	11	0.0	4.3	*	9.1	8.0	*	9.1	10.7	*
Hysterectomy	5	0.0	2.6	*	0.0	6.1	*	0.0	9.5	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

BEYER MEMORIAL HOSPITAL

135 S Prospect St
Ypsilanti, MI 48197

Medicare Provider Number: 230144

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	692	11.8	11.0	1.5	17.2	16.3	1.7	21.4	20.3	2.1
CONDITIONS:										
Acute Myocardial Infarction	20	35.0	26.8	*	45.0	29.4	*	45.0	32.4	*
Congestive Heart Failure	44	18.2	15.1	*	25.0	23.0	*	27.3	29.6	*
Pneumonia/Influenza	33	24.2	17.5	*	33.3	23.8	*	36.4	28.7	*
Chronic Obstructive Pulmonary Disease	15	0.0	11.6	*	0.0	19.5	*	20.0	25.9	*
Transient Cerebral Ischemia	7	0.0	1.7	*	0.0	3.5	*	14.3	5.5	*
Stroke	28	21.4	17.9	*	28.6	25.5	*	39.3	30.2	*
Hip Fracture	16	12.5	7.8	*	12.5	13.4	*	18.8	17.0	*
Sepsis	16	37.5	24.0	*	37.5	33.1	*	37.5	39.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	6.5	*	0.0	11.3	*	25.0	14.2	*
Open Reduction of Hip Fracture	12	16.7	7.1	*	16.7	12.9	*	16.7	16.7	*
Prostatectomy	17	0.0	0.4	*	0.0	0.9	*	0.0	1.5	*
Cholecystectomy	8	0.0	1.5	*	0.0	2.4	*	0.0	3.1	*
Hysterectomy	3	0.0	0.0	*	0.0	0.1	*	0.0	0.2	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	66
Occupancy Rate	64
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	71
Percent of Physicians Board Certified Specialists	66
Medical Residents/Interns	0
Registered Nurses	90
Licensed Practical Nurses	23

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	Yes
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

BEYER MEMORIAL HOSPITAL

Medicare Provider Number: 230144

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	751	12.5	11.9	1.3	20.0	17.6	1.8	23.7	22.0	2.6
CONDITIONS:										
Acute Myocardial Infarction	19	42.1	31.4	*	47.4	34.5	*	52.6	37.9	*
Congestive Heart Failure	38	18.4	17.1	*	23.7	26.1	*	28.9	33.3	*
Pneumonia/Influenza	38	23.7	23.0	*	39.5	30.5	*	42.1	35.9	*
Chronic Obstructive Pulmonary Disease	21	14.3	11.1	*	14.3	18.1	*	19.0	23.8	*
Transient Cerebral Ischemia	8	0.0	2.5	*	0.0	5.3	*	0.0	8.3	*
Stroke	29	20.7	20.3	*	27.6	27.0	*	34.5	31.5	*
Hip Fracture	21	4.8	8.3	*	14.3	14.5	*	14.3	18.1	*
Sepsis	12	50.0	36.3	*	58.3	45.3	*	75.0	51.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	6	0.0	4.1	*	0.0	7.7	*	0.0	9.9	*
Open Reduction of Hip Fracture	9	0.0	9.6	*	22.2	17.4	*	22.2	22.1	*
Prostatectomy	18	0.0	0.9	*	5.6	2.1	*	5.6	3.6	*
Cholecystectomy	12	0.0	2.6	*	0.0	4.5	*	0.0	5.6	*
Hysterectomy	7	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	731	15.2	11.0	1.6	20.1	16.2	1.9	22.8	20.1	1.8
CONDITIONS:										
Acute Myocardial Infarction	27	51.9	27.9	*	55.6	31.8	*	59.3	35.4	*
Congestive Heart Failure	37	10.8	16.1	*	21.6	24.2	*	21.6	31.1	*
Pneumonia/Influenza	37	40.5	19.3	*	51.4	25.7	*	54.1	30.8	*
Chronic Obstructive Pulmonary Disease	20	0.0	10.4	*	5.0	17.0	*	20.0	22.3	*
Transient Cerebral Ischemia	5	0.0	2.3	*	0.0	5.3	*	20.0	8.6	*
Stroke	29	37.9	20.7	*	44.8	28.9	*	48.3	33.6	*
Hip Fracture	11	18.2	6.6	*	27.3	11.7	*	27.3	15.2	*
Sepsis	10	50.0	36.6	*	50.0	45.6	*	50.0	52.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	6	16.7	8.1	*	33.3	11.6	*	33.3	14.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	0.0	1.8	*	0.0	3.4	*	0.0	4.9	*
Open Reduction of Hip Fracture	10	20.0	6.0	*	30.0	11.2	*	30.0	14.9	*
Prostatectomy	24	4.2	1.5	*	4.2	3.6	*	4.2	5.8	*
Cholecystectomy	10	0.0	2.8	*	0.0	4.6	*	0.0	5.6	*
Hysterectomy	1	0.0	0.0	*	0.0	0.1	*	0.0	0.1	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

BI-COUNTY COMMUNITY HOSPITAL

13355 E Ten Mile Rd
Warren, MI 48089

Medicare Provider Number: 230204

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,951	13.3	12.3	0.8	21.5	18.3	1.5	25.8	22.7	1.3
CONDITIONS:										
Acute Myocardial Infarction	95	40.0	30.1	5.8	51.6	34.0	7.6	54.7	37.6	7.4
Congestive Heart Failure	143	16.1	16.2	3.2	25.9	25.0	3.7	31.5	31.9	4.5
Pneumonia/Influenza	86	29.1	20.6	6.9	38.4	28.0	7.7	45.3	33.5	8.4
Chronic Obstructive Pulmonary Disease	24	0.0	5.8	*	4.2	10.5	*	12.5	14.9	*
Transient Cerebral Ischemia	40	2.5	2.1	*	2.5	4.5	*	2.5	7.2	*
Stroke	101	17.8	21.6	6.0	27.7	29.0	7.5	30.7	33.5	5.3
Hip Fracture	48	10.4	7.5	*	16.7	12.9	*	18.8	16.4	*
Sepsis	9	44.4	34.6	*	55.6	44.0	*	55.6	50.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	16	18.8	5.9	*	31.3	10.1	*	31.3	13.2	*
Carotid Endarterectomy	23	4.3	1.5	*	4.3	2.9	*	8.7	4.5	*
Hip Replacement/Reconstruction	34	5.9	2.8	*	5.9	5.1	*	5.9	6.7	*
Open Reduction of Hip Fracture	29	6.9	7.2	*	17.2	13.0	*	20.7	16.6	*
Prostatectomy	49	0.0	0.6	*	0.0	1.6	*	0.0	2.6	*
Cholecystectomy	40	0.0	2.7	*	2.5	4.8	*	2.5	6.2	*
Hysterectomy	20	10.0	0.7	*	15.0	1.6	*	15.0	2.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	175
Occupancy Rate	78
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	164
Percent of Physicians Board Certified Specialists	74
Medical Residents/Interns	48
Registered Nurses	144
Licensed Practical Nurses	10

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

BI-COUNTY COMMUNITY HOSPITAL

Medicare Provider Number: 230204

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,855	10.5	11.0	0.8	16.8	16.4	0.9	21.1	20.4	1.0
CONDITIONS:										
Acute Myocardial Infarction	64	31.3	29.9	9.3	35.9	33.5	7.9	40.6	37.1	6.7
Congestive Heart Failure	136	14.7	16.5	3.6	26.5	24.8	4.0	30.1	31.7	4.5
Pneumonia/Influenza	72	22.2	19.0	5.4	33.3	25.3	7.0	34.7	30.1	6.3
Chronic Obstructive Pulmonary Disease	46	6.5	10.3	*	13.0	17.1	*	17.4	22.8	*
Transient Cerebral Ischemia	51	3.9	1.7	*	3.9	3.7	*	11.8	5.8	*
Stroke	86	10.5	19.9	7.5	23.3	26.8	5.6	30.2	31.4	5.3
Hip Fracture	37	8.1	8.0	*	27.0	14.6	*	40.5	18.6	*
Sepsis	9	11.1	31.7	*	33.3	39.4	*	44.4	45.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	8	37.5	17.0	*	50.0	21.9	*	50.0	26.6	*
Carotid Endarterectomy	32	0.0	1.5	*	0.0	3.0	*	0.0	4.4	*
Hip Replacement/Reconstruction	19	0.0	4.0	*	0.0	7.5	*	15.8	9.6	*
Open Reduction of Hip Fracture	23	13.0	7.6	*	34.8	14.5	*	39.1	19.0	*
Prostatectomy	59	0.0	0.7	*	0.0	1.6	*	0.0	2.7	*
Cholecystectomy	28	3.6	4.5	*	3.6	7.6	*	7.1	9.5	*
Hysterectomy	19	0.0	1.0	*	0.0	2.1	*	0.0	3.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,629	11.7	11.2	0.9	18.8	16.7	1.3	23.3	20.9	1.3
CONDITIONS:										
Acute Myocardial Infarction	55	30.9	28.4	6.3	40.0	31.4	7.5	43.6	34.6	7.9
Congestive Heart Failure	140	20.0	17.7	4.2	33.6	26.5	6.3	42.1	33.7	7.4
Pneumonia/Influenza	54	31.5	21.1	8.2	40.7	27.7	8.0	48.1	32.9	8.6
Chronic Obstructive Pulmonary Disease	67	7.5	11.6	5.1	13.4	19.2	7.1	17.9	24.8	8.5
Transient Cerebral Ischemia	36	0.0	1.6	*	2.8	3.4	*	11.1	5.3	*
Stroke	72	19.4	23.8	6.8	27.8	31.1	5.7	36.1	35.7	6.0
Hip Fracture	36	2.8	6.2	*	8.3	11.2	*	13.9	14.7	*
Sepsis	13	15.4	27.7	*	23.1	34.4	*	30.8	39.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	0.0	3.4	*	0.0	8.2	*	0.0	13.1	*
Carotid Endarterectomy	23	0.0	1.8	*	0.0	3.4	*	0.0	5.0	*
Hip Replacement/Reconstruction	26	0.0	3.4	*	7.7	6.5	*	11.5	8.8	*
Open Reduction of Hip Fracture	18	5.6	5.8	*	11.1	10.6	*	11.1	13.9	*
Prostatectomy	45	0.0	0.7	*	0.0	1.7	*	2.2	2.9	*
Cholecystectomy	29	6.9	2.3	*	6.9	4.1	*	6.9	5.2	*
Hysterectomy	17	5.9	1.1	*	5.9	2.4	*	5.9	3.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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Bi-County Community Hospital (Osteopathic)
AN AFFILIATE OF HORIZON HEALTH SYSTEMS

January 7, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

A RESPONSE TO THE HCFA MEDICARE MORTALITY DATA

Bi-County Community Hospital is an acute care facility with 247 beds, with a special care unit (intensive and coronary care). We have a full service Emergency Department with specialists available around the clock. We also have many subspecialists on staff whose primary practice site is at Bi-County Community Hospital. Many of our physicians are participating physicians at local extended care facilities. As a result, a higher percentage of our Medicare admissions are transferred from nursing homes. Therefore, the more severely ill patient is being attracted and admitted to our hospital. This has been repeatedly confirmed by the Michigan Hospital Association statistics that show Bi-County Community Hospital as having more cases with one or more co-morbidities than the state average. Co-morbidities are the presence of additional medical conditions that further complicate the treatment of the patients and reflect a higher severity of illness index. We are a hospital that honors the NO CODE/DO NOT RESUSCITATE requests of family members.

There are 240 cases where the patient actually expired at Bi-County Community Hospital. All 240 cases were treated for their primary disease, as well as concomitant conditions. Their average age was 79 years old.

The HCFA Mortality rates alone do not constitute an appropriate measure of quality of care and is, in fact, a statistical review of number of cases. Bi-County Community Hospital has an ongoing Quality Assessment program which includes mortality review by all clinical departments. All cases in which death occurs undergo internal peer review for appropriateness and quality of care.

Respectfully submitted,

Gary W. Popiel

Gary W. Popiel, Vice President/Administrator
Administration

13355 East Ten Mile Road
Warren, Michigan 48089-2065
313-759-7300

BLODGETT MEMORIAL MEDICAL CENTER

1840 Wealthy St S E
Grand Rapids, MI 49506

Medicare Provider Number: 230032

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,176	8.2	8.1	0.6	12.2	11.8	0.7	14.7	14.8	0.7
CONDITIONS:										
Acute Myocardial Infarction	108	25.9	27.1	4.7	29.6	30.2	5.1	32.4	33.4	4.9
Congestive Heart Failure	99	21.2	14.7	6.9	31.3	22.6	8.2	37.4	29.2	7.9
Pneumonia/Influenza	93	12.9	14.8	4.2	18.3	20.3	4.6	25.8	24.7	4.8
Chronic Obstructive Pulmonary Disease	7	0.0	6.7	*	0.0	10.8	*	0.0	14.5	*
Transient Cerebral Ischemia	38	0.0	2.0	*	0.0	4.4	*	5.3	6.9	*
Stroke	89	24.7	22.5	4.9	30.3	28.6	5.2	34.8	32.9	5.5
Hip Fracture	89	7.9	7.4	3.2	10.1	12.7	4.5	15.7	16.2	4.1
Sepsis	33	27.3	30.5	*	36.4	38.1	*	39.4	43.9	*
PROCEDURES:										
Angioplasty	99	2.0	2.8	2.1	3.0	3.6	2.8	3.0	4.7	3.3
Coronary Artery Bypass Graft	212	4.2	4.7	1.7	6.6	6.6	1.7	7.1	7.8	2.0
Initial Pacemaker Insertion	32	0.0	2.4	*	3.1	5.0	*	6.3	7.5	*
Carotid Endarterectomy	41	0.0	1.5	*	0.0	2.8	*	0.0	4.1	*
Hip Replacement/Reconstruction	123	1.6	1.7	1.4	1.6	2.9	1.9	1.6	4.0	2.4
Open Reduction of Hip Fracture	50	8.0	6.1	*	12.0	11.1	*	16.0	14.4	*
Prostatectomy	116	0.9	0.6	1.5	2.6	1.4	1.4	2.6	2.5	1.7
Cholecystectomy	61	1.6	3.4	2.9	3.3	5.8	4.1	4.9	7.3	4.8
Hysterectomy	33	0.0	0.5	*	0.0	1.2	*	0.0	1.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	343
Occupancy Rate	65
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	259
Percent of Physicians Board Certified Specialists	94
Medical Residents/Interns	79
Registered Nurses	440
Licensed Practical Nurses	32

SPECIALTY SERVICES:

Burn Unit	Yes
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	Yes

**** Not used in calculating hospital mortality rates.**

BLODGETT MEMORIAL MEDICAL CENTER

Medicare Provider Number: 230032

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,977	8.6	8.1	0.9	13.1	12.1	1.0	16.1	15.2	1.1
CONDITIONS:										
Acute Myocardial Infarction	86	20.9	25.0	5.5	22.1	27.9	6.4	23.3	31.1	7.4
Congestive Heart Failure	123	18.7	15.7	4.0	23.6	23.8	4.0	33.3	30.5	4.8
Pneumonia/Influenza	76	21.1	16.9	6.2	32.9	22.7	7.5	35.5	27.1	8.1
Chronic Obstructive Pulmonary Disease	19	10.5	11.9	*	21.1	18.7	*	26.3	23.7	*
Transient Cerebral Ischemia	26	0.0	1.7	*	0.0	3.5	*	0.0	5.3	*
Stroke	106	22.6	24.0	4.6	30.2	30.3	5.0	34.9	34.8	5.6
Hip Fracture	96	5.2	7.9	4.2	11.5	13.8	5.5	14.6	17.3	5.2
Sepsis	21	38.1	25.8	*	42.9	32.9	*	42.9	38.9	*
PROCEDURES:										
Angioplasty	70	0.0	2.8	3.2	0.0	3.8	4.0	2.9	4.8	3.8
Coronary Artery Bypass Graft	169	5.3	5.0	1.7	6.5	6.6	2.0	7.7	7.8	2.1
Initial Pacemaker Insertion	26	7.7	3.8	*	15.4	7.0	*	15.4	10.0	*
Carotid Endarterectomy	38	5.3	1.5	*	5.3	2.9	*	5.3	4.2	*
Hip Replacement/Reconstruction	135	1.5	2.6	1.6	2.2	4.8	2.7	3.0	6.3	3.2
Open Reduction of Hip Fracture	30	6.7	6.8	*	13.3	12.1	*	16.7	15.3	*
Prostatectomy	96	0.0	0.8	1.2	2.1	2.1	1.5	3.1	3.5	1.9
Cholecystectomy	53	0.0	3.7	4.4	7.5	6.5	3.6	9.4	8.4	5.0
Hysterectomy	41	0.0	0.5	*	0.0	1.0	*	2.4	1.5	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,856	8.4	8.1	0.5	13.4	12.4	0.9	16.3	15.6	1.0
CONDITIONS:										
Acute Myocardial Infarction	75	28.0	26.4	5.2	30.7	29.6	5.7	32.0	33.0	5.5
Congestive Heart Failure	94	22.3	16.0	6.5	35.1	23.9	7.4	37.2	30.6	6.6
Pneumonia/Influenza	63	22.2	18.2	5.5	28.6	24.6	7.1	39.7	29.5	9.5
Chronic Obstructive Pulmonary Disease	28	14.3	11.5	*	17.9	19.0	*	28.6	24.6	*
Transient Cerebral Ischemia	36	0.0	2.3	*	2.8	4.7	*	8.3	7.2	*
Stroke	72	16.7	24.9	6.8	20.8	31.7	8.4	25.0	36.2	8.6
Hip Fracture	81	7.4	7.0	4.0	16.0	12.3	5.5	17.3	15.6	5.9
Sepsis	16	31.3	23.0	*	50.0	31.7	*	62.5	37.6	*
PROCEDURES:										
Angioplasty	46	2.2	4.6	*	4.3	5.7	*	6.5	7.1	*
Coronary Artery Bypass Graft	119	3.4	5.6	2.7	4.2	7.8	3.6	4.2	9.2	4.2
Initial Pacemaker Insertion	27	3.7	4.1	*	3.7	7.9	*	7.4	11.2	*
Carotid Endarterectomy	45	0.0	1.7	*	0.0	3.1	*	0.0	4.4	*
Hip Replacement/Reconstruction	102	3.9	2.1	2.8	5.9	3.9	3.5	5.9	5.1	3.7
Open Reduction of Hip Fracture	38	2.6	6.0	*	10.5	11.0	*	10.5	14.3	*
Prostatectomy	91	1.1	0.7	1.1	1.1	1.8	1.6	2.2	3.0	2.2
Cholecystectomy	63	3.2	2.4	2.2	4.8	4.4	2.6	6.3	5.8	3.7
Hysterectomy	26	0.0	0.9	*	3.8	1.9	*	3.8	2.9	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

269.1

Blodgett
Memorial Medical Center

January 14, 1991 Hospital Provider #: 2300032

Gail R. Wilensky, Ph.D., Administrator
Health Care Financing Administration
6325 Security Boulevard
Baltimore, MD 21207

Dear Dr. Wilensky:

Thank you for the opportunity to review the mortality information on Medicare patients treated at out hospital in 1989. The following information should help put Blodgett Memorial Medical Center's mortality rates in perspective.

Hospital Characteristics

Blodgett is a community teaching hospital located in Western Michigan. The hospital is licensed for 410 acute care beds -- 285 adult medical/surgical, 44 adult critical care, 44 obstetrical, and 37 pediatric.

Our medical staff is comprised of 259 active staff. 94% of the active staff are board certified in their specialty. 25% of the inpatient admissions come from outside our primary market area. A significant portion of these patient referrals are for cardiovascular, neurological or orthopedic diseases and disorders.

Due to the number of sub-specialty physicians and the number of patient referrals from other communities, the mix of patients treated at Blodgett Memorial Medical Center is more complex in nature than the average. One indicator of this is the CMI (Case Mix Index). This is a comparative statistic published by HCFA which measures the relative complexity of Medicare patients admitted to a hospital as compared to the national average. Blodgett's current CMI is 1.8177 (Federal Register 9/4/90), meaning that our mix of patients is 82% more complex than the national average. This is the highest CMI of all Michigan hospitals.

Mortality Rate Analysis by HCFA

The analytical model used by HCFA measures the relationship between death and a select group of patient characteristics. Since not all of the significant characteristics which could contribute to death (such as severity of illness) have been measured, the ability to predict the likelihood of death is limited. The analysis can serve as an initial screen to be used by medical peer review groups, but can not be used alone as an indicator of the quality of patient care.

We are pleased with our initial screen which reflects an actual overall rate of 8.2% compared to the expected rate of 8.1 for 30 days. This overall rate as well as the rates of each subgroup demonstrate no statistically significant difference from the predicated rates. We are proud of this positive result and remain committed to continual improvement.

Hospital Use of Data

Blodgett has an ongoing quality assurance program which has a dual goal of monitoring the quality and appropriateness of patient care and of taking action whenever opportunities to improve that care are identified. Mortality rates are one of the many aspects of patient care that are continually monitored. Data from external sources, such as the HCFA Mortality Rates, are welcomed and are integrated into our internal data systems for review by the medical staff. More specifically, the HCFA data will undergo peer review by the physicians to evaluate factors affecting severity of illness and to identify any patterns or trends that may benefit from in depth analysis.

Blodgett's Board of Trustees, medical staff and administration remain committed to continually assessing and improving its services to the Medicare population as well as all other patients who seek medical care at our institution.

Sincerely,

Terrence M O'Rourke

Terrence M. O'Rourke,
President

/blm

BON SECOURS HOSPITAL

468 Cadieux Rd
Grosse Pointe, MI 48230

Medicare Provider Number: 230089

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,156	9.2	9.9	0.9	15.0	15.2	1.1	19.0	19.1	0.9
CONDITIONS:										
Acute Myocardial Infarction	100	30.0	27.6	4.9	33.0	31.1	4.9	37.0	34.5	5.3
Congestive Heart Failure	201	9.5	17.0	3.6	19.9	26.0	3.7	28.4	33.1	3.8
Pneumonia/Influenza	142	13.4	17.8	5.1	19.7	24.2	5.2	23.9	29.1	6.0
Chronic Obstructive Pulmonary Disease	22	13.6	9.6	*	18.2	16.2	*	36.4	22.1	*
Transient Cerebral Ischemia	60	0.0	2.0	2.6	5.0	4.5	2.7	8.3	7.1	3.7
Stroke	125	17.6	21.0	4.8	29.6	28.7	4.9	30.4	33.4	4.8
Hip Fracture	95	7.4	7.5	2.7	12.6	13.2	3.5	16.8	17.0	4.3
Sepsis	44	20.5	31.0	*	29.5	38.8	*	40.9	44.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	27	3.7	2.2	*	3.7	4.3	*	3.7	6.4	*
Carotid Endarterectomy	38	0.0	1.5	*	0.0	2.7	*	0.0	4.0	*
Hip Replacement/Reconstruction	90	4.4	3.3	4.2	11.1	6.3	6.0	12.2	8.7	6.5
Open Reduction of Hip Fracture	50	6.0	7.1	*	8.0	12.9	*	12.0	16.8	*
Prostatectomy	119	0.0	0.9	1.0	0.8	2.1	1.5	1.7	3.5	2.2
Cholecystectomy	65	3.1	3.3	3.4	9.2	6.0	5.0	12.3	7.8	5.8
Hysterectomy	24	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	270
Occupancy Rate	81
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	230
Percent of Physicians Board Certified Specialists	90
Medical Residents/Interns	(Not Available)
Registered Nurses	(Not Available)
Licensed Practical Nurses	(Not Available)

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	Yes
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

BON SECOURS HOSPITAL

Medicare Provider Number: 230089

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,172	8.9	10.2	0.7	13.7	15.4	0.9	17.2	19.3	1.1
CONDITIONS:										
Acute Myocardial Infarction	106	30.2	30.7	4.6	39.6	34.9	6.0	43.4	38.8	6.4
Congestive Heart Failure	178	16.3	19.0	4.0	24.2	28.4	5.6	29.2	35.7	6.3
Pneumonia/Influenza	132	20.5	19.3	3.8	25.0	25.5	3.8	28.0	30.2	4.4
Chronic Obstructive Pulmonary Disease	33	3.0	12.3	*	12.1	19.7	*	21.2	25.3	*
Transient Cerebral Ischemia	50	4.0	2.1	*	6.0	4.6	*	6.0	7.3	*
Stroke	120	19.2	21.3	4.0	25.0	28.8	5.3	26.7	33.5	7.0
Hip Fracture	84	3.6	7.4	4.5	8.3	13.3	7.4	11.9	16.9	8.0
Sepsis	35	34.3	32.1	*	45.7	40.7	*	51.4	47.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	18	0.0	5.4	*	11.1	9.4	*	16.7	12.8	*
Carotid Endarterectomy	25	0.0	1.5	*	0.0	3.0	*	0.0	4.4	*
Hip Replacement/Reconstruction	104	0.0	2.6	2.3	1.9	4.9	3.1	2.9	6.5	3.8
Open Reduction of Hip Fracture	36	0.0	7.1	*	2.8	13.3	*	8.3	17.2	*
Prostatectomy	163	1.8	1.3	1.0	3.7	3.2	1.9	8.0	5.1	2.3
Cholecystectomy	58	1.7	2.7	3.1	1.7	4.8	4.2	1.7	6.2	4.8
Hysterectomy	27	0.0	0.5	*	0.0	1.0	*	0.0	1.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,201	8.8	9.6	0.8	13.5	14.6	0.9	16.7	18.4	1.0
CONDITIONS:										
Acute Myocardial Infarction	88	30.7	34.6	5.5	34.1	38.5	5.6	37.5	42.1	5.5
Congestive Heart Failure	185	14.6	18.6	5.4	25.9	27.8	4.5	33.0	35.2	4.1
Pneumonia/Influenza	152	23.0	19.3	4.0	30.9	25.8	5.4	33.6	30.8	4.6
Chronic Obstructive Pulmonary Disease	39	12.8	11.9	*	20.5	19.6	*	20.5	25.3	*
Transient Cerebral Ischemia	74	1.4	2.5	2.0	1.4	5.4	4.2	4.1	8.6	4.7
Stroke	125	17.6	20.2	7.8	23.2	27.8	8.1	28.0	32.3	8.6
Hip Fracture	89	5.6	7.6	4.9	9.0	13.5	6.7	13.5	17.3	5.6
Sepsis	42	40.5	35.0	*	45.2	42.7	*	50.0	49.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	23	4.3	4.0	*	8.7	7.9	*	8.7	11.5	*
Carotid Endarterectomy	26	0.0	1.5	*	0.0	2.8	*	0.0	4.2	*
Hip Replacement/Reconstruction	83	3.6	3.2	2.2	3.6	5.8	3.4	6.0	7.6	3.7
Open Reduction of Hip Fracture	46	2.2	6.6	*	8.7	12.2	*	10.9	15.8	*
Prostatectomy	148	0.7	1.3	1.0	0.7	3.2	2.0	1.4	5.1	2.8
Cholecystectomy	71	2.8	2.5	1.9	5.6	4.4	2.8	5.6	5.8	3.4
Hysterectomy	34	0.0	0.6	*	0.0	1.3	*	0.0	2.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

BORGESS MEDICAL CENTER

1521 Gull Road
Kalamazoo, MI 49001

Medicare Provider Number: 230117

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,483	9.4	8.4	0.9	13.4	12.6	0.9	16.5	16.0	1.1
CONDITIONS:										
Acute Myocardial Infarction	149	20.8	24.5	3.9	22.8	27.0	4.2	23.5	29.8	4.9
Congestive Heart Failure	176	16.5	15.1	3.1	21.6	22.9	3.4	28.4	29.6	4.0
Pneumonia/Influenza	30	16.7	12.7	*	26.7	17.6	*	30.0	21.2	*
Chronic Obstructive Pulmonary Disease	37	21.6	7.2	*	24.3	11.8	*	29.7	16.1	*
Transient Cerebral Ischemia	29	0.0	1.8	*	3.4	4.0	*	10.3	6.5	*
Stroke	130	19.2	18.1	3.5	28.5	24.2	5.1	33.1	28.3	5.3
Hip Fracture	78	9.0	7.1	3.2	10.3	12.6	4.5	11.5	16.4	5.8
Sepsis	21	38.1	26.1	*	42.9	36.4	*	47.6	43.5	*
PROCEDURES:										
Angioplasty	292	4.5	3.6	1.9	5.5	4.4	2.3	6.8	5.4	2.5
Coronary Artery Bypass Graft	177	6.8	4.6	2.8	7.9	6.7	2.5	9.0	8.0	2.4
Initial Pacemaker Insertion	60	0.0	2.2	2.6	1.7	4.6	4.0	3.3	7.0	5.3
Carotid Endarterectomy	73	2.7	1.6	1.8	2.7	3.1	2.1	4.1	4.5	2.5
Hip Replacement/Reconstruction	104	2.9	2.1	1.7	3.8	4.0	2.4	3.8	5.5	2.8
Open Reduction of Hip Fracture	21	0.0	5.7	*	0.0	10.4	*	0.0	13.4	*
Prostatectomy	56	3.6	0.7	*	7.1	1.7	*	12.5	3.0	*
Cholecystectomy	60	5.0	2.4	3.1	6.7	4.4	3.5	6.7	6.0	3.6
Hysterectomy	24	4.2	0.5	*	8.3	1.1	*	8.3	1.8	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	412
Occupancy Rate	73
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	373
Percent of Physicians Board Certified Specialists	73
Medical Residents/Interns	0
Registered Nurses	500
Licensed Practical Nurses	88

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	Yes
Other Intensive Care	Yes
Rehabilitation Unit	No
Trauma Center	Yes

** **Not used in calculating hospital mortality rates.**

BORGESS MEDICAL CENTER

Medicare Provider Number: 230117

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,390	9.0	9.2	0.5	14.5	13.7	0.8	18.2	17.2	0.9
CONDITIONS:										
Acute Myocardial Infarction	160	20.0	27.1	5.1	22.5	29.8	5.3	24.4	33.0	5.8
Congestive Heart Failure	185	18.9	17.0	3.7	30.3	25.3	5.4	39.5	32.3	6.8
Pneumonia/Influenza	13	7.7	17.5	*	30.8	23.9	*	30.8	28.3	*
Chronic Obstructive Pulmonary Disease	31	19.4	7.1	*	25.8	11.6	*	29.0	15.8	*
Transient Cerebral Ischemia	37	2.7	1.8	*	8.1	4.0	*	8.1	6.6	*
Stroke	114	14.0	20.6	6.1	21.1	26.7	6.9	23.7	31.1	8.5
Hip Fracture	73	1.4	6.6	4.9	8.2	12.0	5.7	13.7	15.4	4.7
Sepsis	18	22.2	25.8	*	33.3	33.6	*	33.3	38.8	*
PROCEDURES:										
Angioplasty	277	7.6	4.4	2.0	8.7	5.4	2.3	10.5	6.5	2.7
Coronary Artery Bypass Graft	189	7.9	5.1	3.1	10.6	7.0	3.8	12.2	8.2	3.9
Initial Pacemaker Insertion	53	0.0	2.7	3.8	1.9	5.4	5.4	7.5	8.1	4.8
Carotid Endarterectomy	67	0.0	1.5	1.9	1.5	2.7	2.3	3.0	4.0	2.8
Hip Replacement/Reconstruction	109	0.9	2.5	2.2	6.4	5.0	2.5	7.3	6.9	2.5
Open Reduction of Hip Fracture	15	0.0	5.0	*	6.7	9.5	*	26.7	12.6	*
Prostatectomy	82	3.7	1.2	2.2	8.5	2.9	4.6	8.5	4.8	4.3
Cholecystectomy	63	4.8	4.0	2.8	7.9	6.8	3.3	7.9	8.8	5.2
Hysterectomy	27	0.0	0.8	*	0.0	1.6	*	0.0	2.3	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,369	9.0	9.0	0.6	14.1	13.5	0.8	17.6	17.0	0.8
CONDITIONS:										
Acute Myocardial Infarction	149	16.1	27.1	4.7	18.1	29.9	4.8	19.5	32.9	5.2
Congestive Heart Failure	169	21.3	16.8	3.5	33.1	24.5	5.3	38.5	31.1	4.9
Pneumonia/Influenza	29	20.7	12.7	*	24.1	17.7	*	34.5	21.6	*
Chronic Obstructive Pulmonary Disease	49	6.1	7.9	*	8.2	12.9	*	18.4	17.2	*
Transient Cerebral Ischemia	43	4.7	2.5	*	9.3	5.3	*	9.3	8.1	*
Stroke	137	15.3	20.0	4.9	22.6	26.8	4.5	29.9	31.2	4.0
Hip Fracture	56	8.9	7.4	6.0	17.9	12.9	7.8	17.9	16.3	8.6
Sepsis	19	26.3	27.1	*	42.1	35.9	*	47.4	42.1	*
PROCEDURES:										
Angioplasty	216	6.9	5.7	1.8	6.9	6.7	1.7	7.4	7.9	1.9
Coronary Artery Bypass Graft	139	8.6	5.3	2.6	9.4	7.5	2.6	9.4	8.9	2.5
Initial Pacemaker Insertion	61	3.3	3.4	2.8	4.9	6.7	5.1	4.9	9.7	7.0
Carotid Endarterectomy	65	4.6	1.8	3.4	6.2	3.3	4.0	6.2	4.8	4.4
Hip Replacement/Reconstruction	96	1.0	1.9	1.8	6.3	3.5	2.7	6.3	4.6	3.1
Open Reduction of Hip Fracture	17	0.0	6.2	*	11.8	11.3	*	11.8	14.5	*
Prostatectomy	76	0.0	1.2	1.8	0.0	2.9	3.7	3.9	4.8	2.8
Cholecystectomy	74	2.7	2.2	2.9	5.4	4.0	2.8	5.4	5.3	3.1
Hysterectomy	22	0.0	1.2	*	0.0	2.2	*	4.5	3.2	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

273.1

Borgess Medical Center
1521 Gull Road
Kalamazoo, Michigan 49001
Telephone 616-383-7000

Member of
Sisters of St. Joseph
Health System, Inc.
Nazareth, Michigan

January 9, 1991

BORGESS
Medical Center

Medicare Provider #: 23-0117

The Health Care Financing Administration (HCFA) of the U.S. Department of Health and Human Services has published mortality information about Medicare patients treated at Borgess Medical Center who were discharged between October 1, 1988 and September 30, 1989. For the same period, HCFA has also published elsewhere its Medicare Case Mix Index. This Index indicates the complexity of the Medicare cases treated, which is determined by those illnesses co-existing with the primary illness under treatment. For example, many people with heart disease also have diabetes and hypertension. During the 1988-1989 time period, Borgess Medical Center's Medicare Case Mix Index was the 33rd highest in the United States (out of more than 5000 acute care hospitals), and the second highest in Michigan (out of 200 hospitals). The Borgess complexity of cases was 50% greater than the average for U.S. hospitals and 60% greater than the average for hospitals in the Midwest.

Mortality is only one of many outcome indicators used by the physicians at Borgess Medical Center in their efforts to continuously improve the quality of care provided to their patients. Moreover, the outcome indicators are not only adjusted for the complexity of cases treated, but also for the patient's severity of illness (a measure of how sick the patients are from their primary illness prior to and following treatment). In order to measure severity of illness, Borgess utilizes one of several automated data systems currently available in the United States. This same data system is used by 500 hospitals in the United States, many similar in size to Borgess, with over 4,000,000 patient records in its database. For the past five years, Borgess Medical Center has been able to compare itself with other U.S. hospitals in its ongoing efforts to improve quality.

From the data provided by HCFA in its latest Medicare Mortality release, it is clear that the majority of patients treated at Borgess Medical Center, whose conditions or procedures were categorized into 17 different categories (1517 cases), had primarily heart and lung disease (60.7%), neurological disorders (15.2%), and orthopedic disorders (13.3%).

The observed mortality rate is compared with the probability of death in each diagnostic category at 30, 90, and 180 days following admission. Mortality at 90 and 180 days following admission, in most cases long after discharge from Borgess Medical Center, raises the possibility that factors outside the hospital may have contributed to death.

When the number of patients in each category is large enough to permit calculation of a statistical standard deviation (generally more than 50 patients), HCFA advises that the difference between observed and predicted mortality rates is not likely to be statistically meaningful unless the observed rate falls outside two standard deviations of the predicted rate. The data published by HCFA for 1988-1989, as well as the previous two years, indicates that differences between observed and predicted mortality rates for each of the diagnostic categories for the patients treated at Borgess Medical Center is not statistically meaningful at either 30, 90, or 180 days.

Every mortality at Borgess Medical Center, whether occurring in a Medicare patient or otherwise, is investigated by a panel of physicians who were not directly involved in the care of the deceased patient. Only such review of patient records by physicians reveals whether appropriate care was provided. Through review of mortality and other outcome indicators, subsequent quality improvement efforts have been and continue to be achieved at Borgess on an ongoing basis. Such efforts are achieved through comprehensive physician and nurse education programs, as well as hospital investment in new and improved technology and services. Improving quality remains the commitment of Borgess Medical Center physicians, staff, and trustees to the patients and the community it serves.

BOTSFORD GENERAL HOSPITAL

28050 Grand St
Farmington, MI 48024

Medicare Provider Number: 230151

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,459	13.3	11.9	0.9	20.1	17.7	1.2	24.4	22.0	1.3
CONDITIONS:										
Acute Myocardial Infarction	74	32.4	27.1	6.9	35.1	30.6	6.3	36.5	33.9	5.7
Congestive Heart Failure	98	19.4	15.6	6.4	27.6	23.4	6.9	35.7	29.9	8.6
Pneumonia/Influenza	79	20.3	18.6	5.1	27.8	25.5	5.3	32.9	30.2	5.9
Chronic Obstructive Pulmonary Disease	34	11.8	16.5	*	26.5	24.1	*	29.4	29.8	*
Transient Cerebral Ischemia	32	0.0	2.1	*	6.3	4.7	*	9.4	7.5	*
Stroke	104	25.0	21.7	7.1	33.7	29.0	7.6	35.6	33.5	6.1
Hip Fracture	79	10.1	7.0	4.4	19.0	12.7	7.5	24.1	16.5	9.5
Sepsis	20	35.0	37.2	*	40.0	46.5	*	60.0	53.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	40	2.5	3.3	*	5.0	6.2	*	12.5	8.7	*
Carotid Endarterectomy	14	0.0	1.5	*	0.0	3.0	*	0.0	4.4	*
Hip Replacement/Reconstruction	57	7.0	2.7	4.9	7.0	5.1	4.3	8.8	6.8	4.1
Open Reduction of Hip Fracture	50	6.0	6.4	*	20.0	12.2	*	24.0	16.1	*
Prostatectomy	69	2.9	0.8	1.6	4.3	1.9	2.6	5.8	3.2	3.5
Cholecystectomy	59	5.1	3.6	3.7	8.5	6.6	4.0	8.5	8.6	4.3
Hysterectomy	20	5.0	4.9	*	15.0	7.4	*	20.0	8.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	301
Occupancy Rate	75
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	228
Percent of Physicians Board Certified Specialists	71
Medical Residents/Interns	100
Registered Nurses	389
Licensed Practical Nurses	54

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

BOTSFORD GENERAL HOSPITAL

Medicare Provider Number: 230151

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,226	12.6	11.8	0.8	19.4	17.5	0.9	24.8	21.8	1.2
CONDITIONS:										
Acute Myocardial Infarction	66	36.4	29.9	6.6	47.0	33.7	7.9	50.0	37.4	8.4
Congestive Heart Failure	118	16.9	17.0	3.5	21.2	25.5	5.5	27.1	32.5	7.3
Pneumonia/Influenza	79	20.3	14.8	5.9	30.4	20.8	6.6	40.5	24.8	7.5
Chronic Obstructive Pulmonary Disease	25	20.0	11.6	*	28.0	18.7	*	28.0	24.7	*
Transient Cerebral Ischemia	45	6.7	2.0	*	11.1	4.4	*	11.1	7.0	*
Stroke	82	31.7	21.6	8.2	36.6	28.5	8.4	40.2	33.1	7.3
Hip Fracture	77	5.2	7.1	3.3	14.3	12.8	4.0	18.2	16.4	4.8
Sepsis	10	40.0	38.5	*	60.0	49.1	*	60.0	56.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	16	6.3	6.4	*	12.5	9.6	*	18.8	12.2	*
Carotid Endarterectomy	6	0.0	1.4	*	0.0	2.6	*	0.0	3.8	*
Hip Replacement/Reconstruction	64	3.1	3.2	3.8	10.9	6.1	5.5	12.5	8.1	6.4
Open Reduction of Hip Fracture	36	2.8	7.0	*	8.3	13.1	*	13.9	17.0	*
Prostatectomy	55	0.0	0.7	1.7	1.8	1.8	2.0	3.6	3.1	2.4
Cholecystectomy	58	6.9	4.9	4.0	13.8	8.5	6.3	17.2	10.6	7.4
Hysterectomy	19	0.0	1.1	*	0.0	2.2	*	0.0	3.3	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,096	13.6	11.6	0.8	21.0	17.0	1.4	25.0	21.0	1.3
CONDITIONS:										
Acute Myocardial Infarction	67	28.4	29.2	5.7	35.8	33.1	6.6	38.8	36.6	6.7
Congestive Heart Failure	140	26.4	17.7	4.7	36.4	26.1	5.4	45.0	33.0	6.1
Pneumonia/Influenza	48	18.8	15.8	*	27.1	21.8	*	29.2	26.1	*
Chronic Obstructive Pulmonary Disease	30	16.7	14.9	*	20.0	23.4	*	30.0	29.5	*
Transient Cerebral Ischemia	31	0.0	2.0	*	6.5	4.5	*	9.7	7.2	*
Stroke	93	22.6	20.5	5.1	34.4	27.9	7.9	38.7	32.3	9.7
Hip Fracture	63	4.8	7.7	4.4	11.1	13.7	4.8	17.5	17.5	4.9
Sepsis	15	40.0	28.4	*	46.7	37.4	*	60.0	43.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	19	10.5	4.4	*	15.8	8.1	*	15.8	11.5	*
Carotid Endarterectomy	4	0.0	2.1	*	0.0	4.4	*	0.0	6.7	*
Hip Replacement/Reconstruction	59	0.0	3.4	3.0	1.7	6.4	4.1	5.1	8.4	4.7
Open Reduction of Hip Fracture	31	9.7	7.4	*	19.4	13.6	*	25.8	17.4	*
Prostatectomy	69	1.4	0.5	1.3	1.4	1.2	2.5	2.9	2.1	3.1
Cholecystectomy	77	3.9	3.0	2.2	6.5	5.4	3.7	9.1	7.0	4.6
Hysterectomy	12	0.0	2.0	*	8.3	3.9	*	8.3	5.3	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

275.1

botsford
general
hospital

COMMENTS ON THE HEALTH CARE FINANCING ADMINISTRATION MORTALITY DATA

JANUARY, 1991

MEDICARE PROVIDER NUMBER: 230151

The 1989 release of HCFA Hospital Mortality Data for the years 1987, 1988, and 1989 has been reviewed by Botsford General Hospital utilizing the methods described by HCFA.

For the most recent period, October 1, 1988 through September 30, 1989, the observed mortality rates for all causes combined and for each diagnostic and procedural category fell within a statistically acceptable range (calculated at the 95% confidence interval). This experience was noted at all intervals reported, i.e., 30,90, and 180 days. Additionally, analysis of the three year period reported indicated a favorable trend.

Botsford General Hospital, as in previous years, offers comments describing characteristics of our Medicare patient population that contribute to a higher overall mortality risk. These characteristics may not be fully appreciated in the analysis conducted by HCFA.

Patient Age

The average patient age of those mortalities occurring during the 1988/89 study period was 81.7 years. Additionally, 53.9% of the mortalities that occurred during hospitalization and 55.1% of the mortalities that occurred following discharge represented patients that were 80 years of age or older.

Extended Care Facilities

Of the mortalities that occurred during the 1988/89 study period, 44% were transferred from an Extended Care Facility (ECF). Of the mortalities that occurred following discharge, 70% were transferred from and discharged to an ECF. The data suggests a higher predicted risk of morality due to the compromised health status of elderly patients requiring extended health care services.

Emergency Admissions

Of the Medicare mortalities for the 1988/89 study period that occurred during hospitalization, 93.8% were emergency admissions to our hospital. The remaining admissions were classified as urgent. These patients required aggressive medical and surgical care for serious and potentially life threatening conditions. This experience reflects a higher than average mortality risk in this patient population.

Terminal Illness

Of the mortalities for the 1988/89 study period occurring during hospitalization and following discharge, a high percentage were noted to have terminal illnesses as reflected by patient and family requests that no resuscitative measures be instituted. Of the mortalities that occurred during hospitalization, 84.9% included such a request. A similar experience is noted of those mortalities that occurred following discharge.

Comorbidities

Analysis of Medicare mortality data for our institution has demonstrated a high rate of comorbid conditions - a factor contributing to a higher than average severity of illness. On average, each of these patients had 3.5 comorbid conditions in addition to their principle illness. These comorbid conditions increased the mortality risk during and immediately following hospitalization.

Summary

Analysis of the 1988/1989 HCFA mortality data for our hospital is encouraging, although limitations in the analytic methods are noted. Additional refinements in the data analyses are necessary before clear correlations can be made regarding the quality of care delivered by health care providers. Severity of illness characteristics of our Medicare population contributing to an increased overall mortality risk are not fully recognized in the methodology.

The HCFA mortality data will be used as a supplemental measure in the dedicated efforts of Botsford General Hospital to provide the best health care services possible. These efforts are consistent with the mission of the hospital and the comprehensive peer review activities that have been established to continuously improve the quality of health care services that are provided. These peer review activities include a review of all mortalities that occur within the hospital. This process provides the greatest assurance that the quality of care objectives of the hospital are achieved.

BRONSON METHODIST HOSPITAL

252 East Lovell Street
Kalamazoo, MI 49006

Medicare Provider Number: 230017

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	2,629	10.6	9.3	0.8	16.7	14.2	0.9	20.8	18.0	1.0
CONDITIONS:										
Acute Myocardial Infarction	104	24.0	24.7	4.2	29.8	28.1	4.5	30.8	31.5	4.6
Congestive Heart Failure	129	17.1	14.2	4.5	24.0	22.3	4.2	30.2	29.0	4.1
Pneumonia/Influenza	91	19.8	16.2	4.5	28.6	22.1	5.9	34.1	26.8	6.8
Chronic Obstructive Pulmonary Disease	26	11.5	8.4	*	23.1	13.8	*	26.9	18.4	*
Transient Cerebral Ischemia	20	0.0	1.8	*	0.0	4.0	*	5.0	6.4	*
Stroke	98	19.4	22.0	5.4	29.6	29.2	5.9	32.7	33.7	5.6
Hip Fracture	93	4.3	6.5	3.5	14.0	11.9	4.1	18.3	15.6	5.7
Sepsis	24	45.8	28.4	*	50.0	35.7	*	66.7	41.5	*
PROCEDURES:										
Angioplasty	20	5.0	5.2	*	5.0	6.4	*	15.0	7.7	*
Coronary Artery Bypass Graft	41	12.2	5.7	*	12.2	8.5	*	12.2	10.5	*
Initial Pacemaker Insertion	19	0.0	2.3	*	10.5	4.9	*	10.5	7.4	*
Carotid Endarterectomy	20	5.0	1.2	*	10.0	2.1	*	10.0	3.1	*
Hip Replacement/Reconstruction	71	2.8	3.1	2.5	7.0	6.1	3.8	9.9	8.5	4.7
Open Reduction of Hip Fracture	39	5.1	5.3	*	15.4	10.2	*	17.9	13.6	*
Prostatectomy	137	0.7	1.0	0.9	2.2	2.5	1.3	4.4	4.2	1.7
Cholecystectomy	56	8.9	3.1	5.1	8.9	5.4	4.5	8.9	6.9	4.4
Hysterectomy	16	0.0	0.6	*	0.0	1.6	*	0.0	2.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	442
Occupancy Rate	60
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	452
Percent of Physicians Board Certified Specialists	71
Medical Residents/Interns	0
Registered Nurses	593
Licensed Practical Nurses	64

SPECIALTY SERVICES:

Burn Unit	Yes
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	Yes
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

BRONSON METHODIST HOSPITAL

Medicare Provider Number: 230017

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,683	10.0	8.8	0.9	14.8	13.5	1.0	18.7	17.2	1.1
CONDITIONS:										
Acute Myocardial Infarction	92	26.1	25.3	5.1	29.3	28.9	4.9	31.5	32.5	5.0
Congestive Heart Failure	118	15.3	16.4	3.5	25.4	24.8	5.2	35.6	31.5	7.1
Pneumonia/Influenza	107	25.2	17.3	5.6	33.6	23.4	6.7	38.3	28.0	7.4
Chronic Obstructive Pulmonary Disease	35	2.9	8.1	*	5.7	13.6	*	8.6	18.3	*
Transient Cerebral Ischemia	22	4.5	1.9	*	9.1	4.0	*	13.6	6.1	*
Stroke	90	23.3	21.0	4.6	26.7	27.8	4.9	30.0	32.3	5.4
Hip Fracture	80	12.5	6.6	5.3	17.5	11.9	6.0	18.7	15.2	5.9
Sepsis	18	27.8	26.0	*	33.3	33.7	*	38.9	39.9	*
PROCEDURES:										
Angioplasty	21	14.3	3.5	*	14.3	4.3	*	19.0	5.2	*
Coronary Artery Bypass Graft	12	33.3	9.5	*	33.3	13.2	*	33.3	15.3	*
Initial Pacemaker Insertion	16	12.5	3.5	*	12.5	6.6	*	18.8	9.6	*
Carotid Endarterectomy	23	0.0	1.7	*	0.0	3.1	*	0.0	4.6	*
Hip Replacement/Reconstruction	68	10.3	3.2	3.4	10.3	6.0	3.5	10.3	7.8	3.9
Open Reduction of Hip Fracture	28	0.0	6.2	*	7.1	11.6	*	10.7	15.0	*
Prostatectomy	128	0.8	1.0	0.9	2.3	2.5	1.4	3.9	4.1	1.8
Cholecystectomy	59	3.4	3.7	4.3	10.2	6.8	6.2	13.6	8.9	7.7
Hysterectomy	31	0.0	0.3	*	0.0	0.5	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,610	10.4	8.7	0.9	15.0	13.6	0.9	18.7	17.3	0.9
CONDITIONS:										
Acute Myocardial Infarction	98	34.7	26.0	5.4	35.7	29.2	5.6	40.8	32.5	5.7
Congestive Heart Failure	98	22.4	15.2	6.2	32.7	23.2	7.6	38.8	30.0	7.2
Pneumonia/Influenza	114	17.5	16.4	5.2	26.3	22.4	7.8	31.6	27.0	6.8
Chronic Obstructive Pulmonary Disease	36	5.6	7.9	*	8.3	14.4	*	11.1	19.5	*
Transient Cerebral Ischemia	29	3.4	1.8	*	6.9	3.7	*	10.3	5.6	*
Stroke	82	22.0	20.2	9.8	31.7	27.3	10.3	35.4	31.9	8.6
Hip Fracture	74	4.1	6.0	4.5	9.5	11.1	6.5	10.8	14.4	7.0
Sepsis	21	33.3	26.7	*	47.6	37.1	*	57.1	44.2	*
PROCEDURES:										
Angioplasty	26	3.8	6.4	*	3.8	7.3	*	7.7	8.4	*
Coronary Artery Bypass Graft	36	5.6	5.4	*	5.6	7.6	*	8.3	9.0	*
Initial Pacemaker Insertion	20	0.0	3.6	*	5.0	7.4	*	10.0	10.9	*
Carotid Endarterectomy	12	0.0	1.5	*	0.0	2.7	*	8.3	3.9	*
Hip Replacement/Reconstruction	74	2.7	2.7	2.0	6.8	5.3	3.8	6.8	7.2	4.2
Open Reduction of Hip Fracture	35	2.9	5.2	*	8.6	10.2	*	11.4	13.7	*
Prostatectomy	108	3.7	0.8	2.5	4.6	2.1	2.4	4.6	3.6	2.9
Cholecystectomy	46	2.2	3.3	*	6.5	5.9	*	6.5	7.7	*
Hysterectomy	29	0.0	0.9	*	0.0	1.8	*	3.4	2.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

277.1

BRONSON
Healthcare Group

January 15, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Mrs. Kappert:

Enclosed are the comments for Bronson Methodist Hospital regarding 1989 HCFA mortality information. This information is being sent to you today over your facsimile machine, number (301) 966-6730, and also through the U.S. Postal Service.

Thank you for this opportunity to comment. Should you require further information, please contact me at (616) 341-7590.

Sincerely,

Richard J. Briscoe
Corporate Vice President

RJB:sn
enc

One Healthcare Plaza
Kalamazoo, Michigan 49007
616/341-6000

BRONSON
Methodist Hospital

Hospital Medicare Provider 230017
Response to HCFA 1989 mortality figures

Bronson Methodist Hospital has received and reviewed mortality data for Medicare patients whom HCFA reported died within 180 days post admission to Bronson in 1989. Our review verifies that the hospital's actual overall Medicare mortality rate for 1989 remained within the anticipated range for Bronson Methodist Hospital.

While Bronson does not regard mortality figures as a sole indicator of quality, we do appreciate the opportunity to incorporate the HCFA report into the hospital's quality assurance process. Any trends or patterns which arise from the HCFA data -- and allow us to draw a statisically meaningful conclusion -- receive review and action as necessary, by the appropriate hospital and medical staff representatives. Our concurrent review and action plan process is not limited to Medicare patients, but encompasses all patients at Bronson.

In general, we remain concerned about the temptation to draw conclusions from the low number of patients reported in many categories by Bronson Methodist and most other hospitals. In many instances, the patient numbers are too small to draw any statistically meaningful conclusions, and we would caution anyone -- including ourselves -- to do so, either to a hospital's potential "benefit" or "detriment."

Additionally, while we feel the new 180-day post-hospital admission death reporting is virtually no indication of the quality of acute, inhospital care rendered to patients, we support HCFA's intent in attempting to review post-hospital care.

Finally, we wish to correct the hospital characteristics section of the 1989 data. Bronson Methodist Hospital is an ACS-verified, Level I Trauma Center with a dedicated, inpatient trauma care unit. Additionally, Bronson has licensed pediatric and neonatal intensive care units.

252 East Lovell Street
Kalamazoo, Michigan 49007

BRONSON VICKSBURG HOSPITAL

13226 North Blvd
Vicksburg, MI 49097

Medicare Provider Number: 230190

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	71	7.0	9.1	4.7	9.9	13.6	6.5	12.7	17.3	7.9
CONDITIONS:										
Acute Myocardial Infarction	1	0.0	8.2	*	0.0	12.2	*	0.0	15.7	*
Congestive Heart Failure	4	25.0	17.8	*	50.0	28.3	*	75.0	36.9	*
Pneumonia/Influenza	13	15.4	16.8	*	15.4	23.2	*	15.4	28.3	*
Chronic Obstructive Pulmonary Disease	1	0.0	10.9	*	0.0	17.1	*	0.0	22.3	*
Transient Cerebral Ischemia	0									
Stroke	1	0.0	12.2	*	0.0	17.7	*	0.0	21.2	*
Hip Fracture	1	0.0	4.9	*	0.0	9.0	*	0.0	11.7	*
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	4	0.0	0.6	*	0.0	1.5	*	0.0	2.6	*
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	41
Occupancy Rate	42
Ownership/Control	Private, For Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	20
Percent of Physicians Board Certified Specialists	55
Medical Residents/Interns	0
Registered Nurses	23
Licensed Practical Nurses	8

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

BRONSON VICKSBURG HOSPITAL

Medicare Provider Number: 230190

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	97	11.3	9.4	4.0	19.6	15.0	5.8	24.7	19.3	7.0
CONDITIONS:										
Acute Myocardial Infarction	1	100.0	41.6	*	100.0	44.7	*	100.0	48.2	*
Congestive Heart Failure	7	57.1	29.4	*	85.7	44.9	*	85.7	54.8	*
Pneumonia/Influenza	10	10.0	15.3	*	20.0	21.6	*	20.0	26.2	*
Chronic Obstructive Pulmonary Disease	1	0.0	4.9	*	0.0	9.2	*	0.0	13.3	*
Transient Cerebral Ischemia	2	0.0	1.3	*	0.0	2.7	*	0.0	4.0	*
Stroke	3	66.7	18.1	*	66.7	28.7	*	66.7	35.2	*
Hip Fracture	4	25.0	6.8	*	50.0	12.5	*	50.0	16.2	*
Sepsis	2	0.0	19.3	*	0.0	26.4	*	0.0	31.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	5	0.0	0.7	*	0.0	1.4	*	0.0	2.3	*
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	103	5.8	7.9	3.2	14.6	11.9	4.7	16.5	15.4	3.6
CONDITIONS:										
Acute Myocardial Infarction	4	25.0	27.2	*	75.0	30.3	*	75.0	33.9	*
Congestive Heart Failure	9	22.2	13.0	*	66.7	20.3	*	66.7	26.7	*
Pneumonia/Influenza	8	12.5	14.4	*	25.0	20.0	*	37.5	24.7	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	1	100.0	46.8	*	100.0	65.8	*	100.0	74.5	*
Hip Fracture	3	0.0	3.4	*	0.0	6.5	*	0.0	8.8	*
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	2.7	*	0.0	5.6	*	0.0	7.8	*
Open Reduction of Hip Fracture	2	0.0	3.2	*	0.0	6.2	*	0.0	8.4	*
Prostatectomy	2	0.0	0.5	*	0.0	1.0	*	0.0	1.6	*
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

BUTTERWORTH HOSPITAL

100 Michigan N E
Grand Rapids, MI 49503

Medicare Provider Number: 230038

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	4,295	8.8	8.7	0.5	13.5	13.0	0.7	16.9	16.4	1.0
CONDITIONS:										
Acute Myocardial Infarction	178	25.3	26.8	4.0	27.5	29.6	4.2	30.3	32.7	4.9
Congestive Heart Failure	156	12.8	14.3	2.9	20.5	22.0	3.6	33.3	28.5	4.2
Pneumonia/Influenza	162	18.5	18.1	3.8	27.2	24.4	4.2	30.9	29.2	4.1
Chronic Obstructive Pulmonary Disease	26	11.5	6.7	*	15.4	11.4	*	19.2	15.7	*
Transient Cerebral Ischemia	34	2.9	1.7	*	2.9	3.5	*	5.9	5.4	*
Stroke	151	17.2	20.9	5.1	21.9	27.5	7.0	27.8	31.9	6.2
Hip Fracture	155	7.1	6.9	2.1	9.7	12.0	3.7	11.6	15.4	4.7
Sepsis	26	19.2	25.4	*	30.8	33.4	*	38.5	39.1	*
PROCEDURES:										
Angioplasty	100	1.0	2.9	3.0	2.0	3.7	3.1	3.0	4.6	3.1
Coronary Artery Bypass Graft	158	5.7	4.6	2.0	7.0	6.1	2.6	8.2	7.2	2.8
Initial Pacemaker Insertion	57	3.5	3.2	4.0	7.0	6.2	3.8	8.8	9.0	3.9
Carotid Endarterectomy	45	0.0	1.3	*	2.2	2.3	*	2.2	3.4	*
Hip Replacement/Reconstruction	122	4.1	3.3	1.9	5.7	6.0	2.3	5.7	7.8	3.2
Open Reduction of Hip Fracture	86	4.7	6.1	3.0	7.0	11.1	6.2	10.5	14.4	6.9
Prostatectomy	213	1.4	0.6	0.7	3.8	1.6	1.5	4.7	2.7	1.9
Cholecystectomy	136	2.2	2.8	1.6	2.9	4.8	2.7	4.4	6.3	3.4
Hysterectomy	42	0.0	1.0	*	2.4	2.1	*	2.4	3.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	529
Occupancy Rate	79
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	365
Percent of Physicians Board Certified Specialists	73
Medical Residents/Interns	80
Registered Nurses	795
Licensed Practical Nurses	80

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	Yes

**** Not used in calculating hospital mortality rates.**

BUTTERWORTH HOSPITAL

Medicare Provider Number: 230038

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	4,276	8.9	8.5	0.5	14.5	12.9	0.9	17.8	16.3	0.7
CONDITIONS:										
Acute Myocardial Infarction	161	19.9	27.1	4.5	26.7	30.3	3.9	28.6	33.8	4.2
Congestive Heart Failure	166	21.1	16.2	3.7	33.7	24.6	5.4	39.8	31.6	5.6
Pneumonia/Influenza	151	18.5	18.4	4.9	25.2	24.5	3.7	28.5	29.4	3.9
Chronic Obstructive Pulmonary Disease	35	11.4	9.1	*	14.3	15.3	*	20.0	20.5	*
Transient Cerebral Ischemia	33	3.0	1.9	*	3.0	4.0	*	6.1	6.4	*
Stroke	132	26.5	23.0	4.0	37.1	29.4	6.3	43.2	34.0	5.9
Hip Fracture	126	6.3	7.0	2.3	14.3	12.6	4.1	16.7	16.1	4.7
Sepsis	24	16.7	27.9	*	25.0	36.5	*	29.2	43.3	*
PROCEDURES:										
Angioplasty	93	3.2	2.1	2.0	4.3	2.9	2.5	5.4	3.7	3.0
Coronary Artery Bypass Graft	182	4.9	5.4	2.0	8.8	7.3	2.3	9.3	8.4	2.1
Initial Pacemaker Insertion	44	4.5	3.6	*	6.8	6.5	*	13.6	9.2	*
Carotid Endarterectomy	40	0.0	1.3	*	0.0	2.4	*	0.0	3.4	*
Hip Replacement/Reconstruction	112	0.9	3.7	3.1	7.1	7.0	2.4	8.9	9.1	2.8
Open Reduction of Hip Fracture	61	8.2	6.0	5.6	16.4	11.2	6.7	16.4	14.6	6.4
Prostatectomy	260	1.2	0.9	0.6	2.7	2.1	1.2	3.5	3.3	1.1
Cholecystectomy	105	0.0	1.6	1.7	1.0	2.9	2.3	1.0	3.8	2.9
Hysterectomy	47	0.0	1.1	*	0.0	2.3	*	0.0	3.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,877	9.1	8.6	0.5	14.4	13.1	0.9	18.3	16.7	0.8
CONDITIONS:										
Acute Myocardial Infarction	155	21.9	29.1	6.2	24.5	32.6	6.6	28.4	36.1	6.7
Congestive Heart Failure	138	13.0	16.1	3.6	30.4	24.2	5.0	37.0	30.9	4.8
Pneumonia/Influenza	119	18.5	18.2	3.6	24.4	24.4	4.1	30.3	29.3	4.5
Chronic Obstructive Pulmonary Disease	34	8.8	8.0	*	11.8	13.2	*	14.7	17.3	*
Transient Cerebral Ischemia	31	3.2	2.1	*	6.5	4.4	*	9.7	6.8	*
Stroke	133	18.8	23.4	4.9	30.8	30.4	4.4	36.1	35.1	4.2
Hip Fracture	138	8.7	6.6	4.2	13.8	11.8	4.8	16.7	15.2	4.6
Sepsis	21	42.9	25.7	*	42.9	32.1	*	52.4	37.8	*
PROCEDURES:										
Angioplasty	72	6.9	4.1	4.5	6.9	5.2	4.4	8.3	6.3	4.2
Coronary Artery Bypass Graft	185	5.9	5.4	1.9	8.1	7.2	2.1	8.1	8.2	2.2
Initial Pacemaker Insertion	54	3.7	4.0	2.8	7.4	7.5	4.0	11.1	10.3	4.2
Carotid Endarterectomy	39	0.0	1.5	*	2.6	2.9	*	5.1	4.2	*
Hip Replacement/Reconstruction	86	5.8	3.4	3.4	8.1	6.4	4.2	10.5	8.4	4.3
Open Reduction of Hip Fracture	82	3.7	5.7	3.1	9.8	10.9	3.8	12.2	14.4	4.3
Prostatectomy	204	1.0	1.1	1.5	5.4	2.6	1.6	7.4	4.2	2.2
Cholecystectomy	107	1.9	2.5	1.9	2.8	4.5	2.9	3.7	6.0	3.3
Hysterectomy	55	1.8	0.5	1.4	1.8	1.1	2.0	1.8	1.7	2.7

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

CALUMET PUBLIC HOSPITAL

205 Osceola Street
Laurium, MI 49913

Medicare Provider Number: 230145

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	466	11.6	10.1	2.5	16.5	14.9	3.2	20.0	18.8	3.6
CONDITIONS:										
Acute Myocardial Infarction	23	30.4	27.9	*	39.1	32.0	*	52.2	35.6	*
Congestive Heart Failure	19	21.1	15.4	*	26.3	22.6	*	31.6	29.1	*
Pneumonia/Influenza	37	10.8	15.9	*	18.9	21.7	*	24.3	26.1	*
Chronic Obstructive Pulmonary Disease	6	16.7	7.9	*	33.3	16.7	*	33.3	24.9	*
Transient Cerebral Ischemia	2	0.0	1.3	*	0.0	2.7	*	0.0	4.2	*
Stroke	24	16.7	18.2	*	20.8	24.7	*	20.8	29.1	*
Hip Fracture	14	21.4	6.2	*	21.4	10.9	*	21.4	14.3	*
Sepsis	9	22.2	23.1	*	33.3	31.9	*	33.3	38.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	0.0	4.8	*	0.0	9.3	*	0.0	12.6	*
Open Reduction of Hip Fracture	14	21.4	5.4	*	21.4	10.0	*	21.4	13.3	*
Prostatectomy	27	0.0	0.9	*	0.0	2.2	*	3.7	3.8	*
Cholecystectomy	11	0.0	2.4	*	0.0	4.2	*	0.0	5.3	*
Hysterectomy	4	0.0	0.6	*	0.0	1.3	*	0.0	2.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	48
Occupancy Rate	42
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	15
Percent of Physicians Board Certified Specialists	67
Medical Residents/Interns	0
Registered Nurses	39
Licensed Practical Nurses	5

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

CALUMET PUBLIC HOSPITAL

Medicare Provider Number: 230145

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	490	11.4	10.0	1.9	14.3	15.1	1.8	18.6	19.1	2.1
CONDITIONS:										
Acute Myocardial Infarction	15	33.3	30.3	*	33.3	34.1	*	40.0	37.8	*
Congestive Heart Failure	32	31.3	18.4	*	37.5	27.6	*	43.8	34.7	*
Pneumonia/Influenza	29	3.4	13.2	*	3.4	17.7	*	10.3	21.3	*
Chronic Obstructive Pulmonary Disease	5	0.0	7.0	*	0.0	11.6	*	20.0	15.7	*
Transient Cerebral Ischemia	5	0.0	3.4	*	0.0	7.8	*	20.0	12.5	*
Stroke	31	19.4	17.2	*	19.4	23.9	*	25.8	28.3	*
Hip Fracture	18	11.1	6.2	*	11.1	11.6	*	16.7	15.2	*
Sepsis	2	0.0	24.8	*	0.0	39.9	*	50.0	47.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	9	0.0	4.8	*	0.0	9.6	*	11.1	12.9	*
Open Reduction of Hip Fracture	16	6.3	5.3	*	6.3	10.5	*	6.3	14.2	*
Prostatectomy	21	0.0	0.7	*	0.0	1.6	*	0.0	2.6	*
Cholecystectomy	14	7.1	2.5	*	7.1	4.7	*	7.1	6.0	*
Hysterectomy	4	0.0	1.6	*	0.0	3.3	*	0.0	4.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	517	10.8	10.2	2.2	16.8	15.5	2.0	19.9	19.6	1.9
CONDITIONS:										
Acute Myocardial Infarction	18	16.7	25.3	*	16.7	29.0	*	16.7	32.3	*
Congestive Heart Failure	34	11.8	17.2	*	23.5	25.5	*	26.5	32.5	*
Pneumonia/Influenza	27	11.1	12.4	*	11.1	17.2	*	14.8	21.2	*
Chronic Obstructive Pulmonary Disease	9	11.1	10.5	*	22.2	18.8	*	22.2	25.4	*
Transient Cerebral Ischemia	4	0.0	1.9	*	25.0	3.7	*	25.0	5.6	*
Stroke	24	29.2	15.6	*	37.5	22.8	*	41.7	27.3	*
Hip Fracture	16	12.5	6.0	*	18.8	10.3	*	18.8	13.1	*
Sepsis	5	20.0	22.6	*	20.0	33.0	*	20.0	38.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	7	0.0	5.5	*	0.0	9.6	*	0.0	12.2	*
Open Reduction of Hip Fracture	15	13.3	5.3	*	20.0	9.7	*	20.0	12.6	*
Prostatectomy	26	0.0	1.8	*	0.0	4.2	*	0.0	6.7	*
Cholecystectomy	11	0.0	3.3	*	0.0	6.8	*	0.0	9.8	*
Hysterectomy	4	0.0	0.4	*	0.0	0.7	*	0.0	1.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

CARO COMMUNITY HOSPITAL

401 N Hooper St
Caro, MI 48723

Medicare Provider Number: 230235

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	316	8.2	10.0	2.4	14.2	14.3	2.8	16.8	17.8	3.1
CONDITIONS:										
Acute Myocardial Infarction	14	14.3	22.2	*	21.4	26.1	*	21.4	29.9	*
Congestive Heart Failure	18	27.8	18.3	*	44.4	27.9	*	50.0	35.9	*
Pneumonia/Influenza	16	18.8	16.3	*	31.3	22.7	*	31.3	27.7	*
Chronic Obstructive Pulmonary Disease	7	0.0	8.3	*	0.0	12.0	*	0.0	15.5	*
Transient Cerebral Ischemia	8	12.5	2.1	*	12.5	4.7	*	12.5	7.6	*
Stroke	10	10.0	19.6	*	10.0	25.6	*	10.0	29.7	*
Hip Fracture	11	0.0	5.8	*	0.0	11.0	*	0.0	14.8	*
Sepsis	4	25.0	29.2	*	25.0	36.6	*	25.0	43.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	14.0	*	0.0	30.5	*	0.0	44.9	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	0.0	5.7	*	0.0	11.8	*	0.0	16.4	*
Open Reduction of Hip Fracture	6	0.0	4.8	*	0.0	9.2	*	0.0	12.3	*
Prostatectomy	17	0.0	0.4	*	0.0	0.9	*	0.0	1.5	*
Cholecystectomy	7	0.0	2.1	*	0.0	3.6	*	0.0	4.6	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1990

Total Beds	50
Ownership/Control	Private, Non-Profit

STAFFING:

Medical Residents/Interns	0
Registered Nurses	16
Licensed Practical Nurses	7

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	Yes
Hospice	Yes
Intensive Care Unit	Yes
Organ Transplant	No
Rehabilitation	No
Shock Trauma	No

**** Not used in calculating hospital mortality rates.**

CARO COMMUNITY HOSPITAL

Medicare Provider Number: 230235

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	310	10.0	10.7	2.1	13.9	15.6	2.5	18.1	19.4	2.6
CONDITIONS:										
Acute Myocardial Infarction	13	38.5	33.9	*	38.5	38.1	*	38.5	42.0	*
Congestive Heart Failure	20	15.0	17.1	*	20.0	25.3	*	35.0	32.3	*
Pneumonia/Influenza	11	9.1	16.1	*	27.3	21.9	*	36.4	26.3	*
Chronic Obstructive Pulmonary Disease	14	0.0	8.4	*	7.1	14.2	*	7.1	18.8	*
Transient Cerebral Ischemia	11	0.0	1.9	*	0.0	4.0	*	0.0	6.1	*
Stroke	17	47.1	29.6	*	58.8	38.4	*	70.6	44.4	*
Hip Fracture	10	0.0	9.6	*	10.0	17.9	*	20.0	23.3	*
Sepsis	0									
PROCEDURE:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	8	0.0	5.3	*	0.0	10.6	*	25.0	14.2	*
Open Reduction of Hip Fracture	2	0.0	8.2	*	50.0	16.9	*	50.0	23.6	*
Prostatectomy	10	0.0	0.5	*	0.0	1.2	*	0.0	2.0	*
Cholecystectomy	4	25.0	1.3	*	25.0	2.4	*	25.0	3.2	*
Hysterectomy	3	0.0	2.6	*	0.0	5.5	*	0.0	8.9	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	287	7.7	7.6	2.2	13.6	11.6	2.2	18.5	15.0	3.0
CONDITIONS:										
Acute Myocardial Infarction	7	28.6	22.7	*	42.9	25.8	*	57.1	29.1	*
Congestive Heart Failure	22	13.6	13.5	*	31.8	20.0	*	36.4	25.9	*
Pneumonia/Influenza	6	0.0	17.4	*	0.0	23.3	*	0.0	28.1	*
Chronic Obstructive Pulmonary Disease	14	7.1	9.7	*	14.3	15.2	*	21.4	19.5	*
Transient Cerebral Ischemia	10	0.0	2.2	*	10.0	5.0	*	30.0	7.9	*
Stroke	8	12.5	21.3	*	12.5	27.6	*	25.0	32.4	*
Hip Fracture	0									
Sepsis	2	0.0	26.4	*	0.0	30.4	*	0.0	35.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	21	0.0	0.6	*	4.8	1.4	*	9.5	2.4	*
Cholecystectomy	4	0.0	2.7	*	0.0	4.8	*	0.0	6.4	*
Hysterectomy	0									

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

CARSON CITY HOSPITAL

Elm at 3rd St
Carson City, MI 48811

Medicare Provider Number: 230208

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	379	10.6	8.8	2.2	14.5	13.3	1.9	16.6	16.8	1.9
CONDITIONS:										
Acute Myocardial Infarction	14	28.6	25.5	*	35.7	28.2	*	35.7	31.4	*
Congestive Heart Failure	18	16.7	16.8	*	27.8	25.3	*	27.8	32.6	*
Pneumonia/Influenza	19	5.3	13.9	*	5.3	19.0	*	15.8	23.3	*
Chronic Obstructive Pulmonary Disease	3	33.3	5.5	*	33.3	10.0	*	33.3	14.1	*
Transient Cerebral Ischemia	8	0.0	1.2	*	0.0	2.8	*	0.0	4.7	*
Stroke	14	35.7	19.4	*	35.7	27.0	*	42.9	31.7	*
Hip Fracture	10	10.0	6.8	*	20.0	11.8	*	20.0	15.1	*
Sepsis	6	16.7	20.8	*	16.7	30.1	*	16.7	36.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	0.0	4.7	*	0.0	9.3	*	0.0	13.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	10	0.0	2.5	*	0.0	4.4	*	0.0	5.6	*
Open Reduction of Hip Fracture	5	20.0	6.7	*	40.0	12.3	*	40.0	16.1	*
Prostatectomy	17	11.8	0.7	*	17.6	1.7	*	23.5	3.0	*
Cholecystectomy	6	0.0	1.1	*	0.0	1.8	*	0.0	2.4	*
Hysterectomy	4	25.0	0.7	*	25.0	1.5	*	25.0	2.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	87
Occupancy Rate	48
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	35
Percent of Physicians Board Certified Specialists	40
Medical Residents/Interns	5
Registered Nurses	58
Licensed Practical Nurses	38

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

CARSON CITY HOSPITAL

Medicare Provider Number: 230208

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	433	10.2	8.9	1.5	13.4	13.2	1.6	17.3	16.7	1.8
CONDITIONS:										
Acute Myocardial Infarction	11	27.3	29.8	*	27.3	32.8	*	27.3	35.9	*
Congestive Heart Failure	33	15.2	15.2	*	21.2	22.2	*	30.3	28.6	*
Pneumonia/Influenza	21	23.8	13.6	*	23.8	18.2	*	28.6	22.1	*
Chronic Obstructive Pulmonary Disease	4	25.0	11.0	*	25.0	17.5	*	25.0	22.4	*
Transient Cerebral Ischemia	4	0.0	2.0	*	0.0	4.9	*	25.0	8.5	*
Stroke	25	36.0	19.1	*	36.0	25.3	*	40.0	29.4	*
Hip Fracture	9	0.0	6.0	*	0.0	10.7	*	0.0	13.7	*
Sepsis	10	0.0	25.3	*	30.0	32.8	*	40.0	38.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	2.7	*	0.0	4.6	*	0.0	6.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	12	0.0	2.5	*	0.0	4.7	*	0.0	6.3	*
Open Reduction of Hip Fracture	2	0.0	4.1	*	0.0	8.0	*	0.0	10.9	*
Prostatectomy	32	3.1	1.1	*	3.1	2.8	*	3.1	4.8	*
Cholecystectomy	14	0.0	1.3	*	0.0	2.4	*	7.1	3.1	*
Hysterectomy	4	0.0	0.4	*	0.0	0.9	*	0.0	1.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	395	11.1	9.3	2.5	15.4	13.7	2.6	17.7	17.2	2.1
CONDITIONS:										
Acute Myocardial Infarction	15	26.7	21.4	*	26.7	24.0	*	33.3	26.8	*
Congestive Heart Failure	31	16.1	14.7	*	25.8	22.0	*	25.8	28.6	*
Pneumonia/Influenza	22	4.5	13.1	*	9.1	17.8	*	13.6	21.9	*
Chronic Obstructive Pulmonary Disease	4	25.0	7.0	*	25.0	13.1	*	25.0	17.9	*
Transient Cerebral Ischemia	0									
Stroke	7	28.6	18.1	*	28.6	24.7	*	28.6	29.1	*
Hip Fracture	16	0.0	6.1	*	6.3	11.0	*	12.5	14.3	*
Sepsis	11	36.4	27.0	*	54.5	35.0	*	54.5	41.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	6.9	*	0.0	10.3	*	25.0	13.0	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	13	7.7	2.8	*	7.7	5.2	*	15.4	6.8	*
Open Reduction of Hip Fracture	10	0.0	4.9	*	10.0	9.3	*	10.0	12.3	*
Prostatectomy	16	0.0	0.7	*	0.0	1.5	*	0.0	2.5	*
Cholecystectomy	12	8.3	2.2	*	8.3	3.7	*	8.3	4.5	*
Hysterectomy	3	0.0	1.0	*	0.0	2.3	*	0.0	3.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

CENTRAL MICHIGAN COMMUNITY HOSPITAL

1221 South Drive
Mt Pleasant, MI 48858

Medicare Provider Number: 230080

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	729	8.9	9.3	1.2	13.7	13.7	1.4	18.9	17.2	2.0
CONDITIONS:										
Acute Myocardial Infarction	28	32.1	29.7	*	35.7	32.5	*	39.3	35.8	*
Congestive Heart Failure	38	7.9	16.7	*	21.1	25.5	*	26.3	32.7	*
Pneumonia/Influenza	34	8.8	18.6	*	17.6	24.9	*	32.4	29.4	*
Chronic Obstructive Pulmonary Disease	5	20.0	6.0	*	20.0	10.4	*	40.0	14.6	*
Transient Cerebral Ischemia	11	0.0	2.6	*	18.2	6.1	*	18.2	9.7	*
Stroke	34	17.6	21.3	*	26.5	27.9	*	32.4	32.4	*
Hip Fracture	24	8.3	6.8	*	20.8	12.2	*	33.3	16.0	*
Sepsis	5	20.0	20.7	*	40.0	29.4	*	40.0	35.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	9	0.0	1.5	*	0.0	2.6	*	0.0	3.8	*
Hip Replacement/Reconstruction	27	3.7	2.0	*	7.4	3.7	*	11.1	5.1	*
Open Reduction of Hip Fracture	17	5.9	6.1	*	17.6	11.6	*	29.4	15.5	*
Prostatectomy	44	2.3	0.5	*	2.3	1.3	*	4.5	2.2	*
Cholecystectomy	10	10.0	2.3	*	10.0	4.0	*	20.0	5.7	*
Hysterectomy	6	0.0	1.1	*	0.0	2.4	*	0.0	3.6	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	118
Occupancy Rate	52
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	41
Percent of Physicians Board Certified Specialists	61
Medical Residents/Interns	0
Registered Nurses	104
Licensed Practical Nurses	19

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

CENTRAL MICHIGAN COMMUNITY HOSPITAL

Medicare Provider Number: 230080

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	851	10.6	9.4	1.2	14.6	14.0	1.5	17.0	17.5	1.3
CONDITIONS:										
Acute Myocardial Infarction	31	32.3	30.9	*	35.5	34.1	*	35.5	37.7	*
Congestive Heart Failure	38	10.5	15.9	*	23.7	24.1	*	23.7	30.9	*
Pneumonia/Influenza	51	23.5	18.2	7.3	27.5	24.2	6.4	27.5	28.7	6.4
Chronic Obstructive Pulmonary Disease	6	0.0	9.6	*	0.0	18.2	*	0.0	25.2	*
Transient Cerebral Ischemia	9	0.0	2.4	*	11.1	5.2	*	11.1	8.1	*
Stroke	32	21.9	22.7	*	28.1	30.4	*	28.1	35.1	*
Hip Fracture	24	16.7	9.0	*	16.7	15.6	*	16.7	19.5	*
Sepsis	12	50.0	27.8	*	50.0	34.7	*	50.0	39.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	4.4	*	0.0	7.1	*	0.0	9.5	*
Carotid Endarterectomy	11	0.0	1.5	*	0.0	2.9	*	0.0	4.2	*
Hip Replacement/Reconstruction	19	0.0	2.1	*	0.0	3.9	*	0.0	5.2	*
Open Reduction of Hip Fracture	17	23.5	8.5	*	23.5	15.6	*	23.5	19.9	*
Prostatectomy	49	2.0	1.5	*	2.0	3.9	*	6.1	6.6	*
Cholecystectomy	22	0.0	1.3	*	0.0	2.5	*	0.0	3.4	*
Hysterectomy	9	0.0	0.3	*	0.0	0.6	*	0.0	0.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	882	8.6	8.1	1.0	11.9	12.5	1.2	14.7	16.0	1.5
CONDITIONS:										
Acute Myocardial Infarction	30	30.0	29.0	*	33.3	32.0	*	33.3	35.4	*
Congestive Heart Failure	41	19.5	17.3	*	29.3	26.0	*	31.7	33.0	*
Pneumonia/Influenza	35	2.9	16.5	*	5.7	22.3	*	14.3	26.8	*
Chronic Obstructive Pulmonary Disease	7	14.3	7.1	*	14.3	12.2	*	14.3	16.7	*
Transient Cerebral Ischemia	7	0.0	1.8	*	0.0	3.9	*	0.0	6.4	*
Stroke	31	29.0	21.7	*	35.5	29.3	*	38.7	34.0	*
Hip Fracture	35	0.0	6.9	*	8.6	12.5	*	14.3	16.3	*
Sepsis	6	16.7	22.4	*	16.7	27.9	*	16.7	33.5	*
PROCEDURES:										
Angioplasty	1	0.0	5.6	*	0.0	9.3	*	0.0	11.2	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	19.7	*	0.0	27.4	*	0.0	30.5	*
Carotid Endarterectomy	12	0.0	1.6	*	0.0	2.8	*	0.0	4.0	*
Hip Replacement/Reconstruction	18	0.0	2.9	*	0.0	5.5	*	0.0	7.3	*
Open Reduction of Hip Fracture	24	0.0	6.2	*	12.5	11.7	*	20.8	15.4	*
Prostatectomy	36	2.8	0.9	*	2.8	2.2	*	2.8	3.7	*
Cholecystectomy	15	0.0	2.4	*	0.0	4.5	*	6.7	6.2	*
Hysterectomy	6	0.0	1.1	*	0.0	2.5	*	0.0	3.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

CHARLEVOIX AREA HOSPITAL

Lake Shore Drive
Charlevoix, MI 49720

Medicare Provider Number: 230124

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	431	10.7	9.8	1.8	14.6	14.6	1.7	18.3	18.3	2.2
CONDITIONS:										
Acute Myocardial Infarction	13	23.1	26.9	*	23.1	29.8	*	30.8	33.3	*
Congestive Heart Failure	24	20.8	17.1	*	29.2	25.0	*	29.2	31.7	*
Pneumonia/Influenza	50	8.0	12.0	*	8.0	16.4	*	10.0	20.2	*
Chronic Obstructive Pulmonary Disease	6	0.0	5.1	*	0.0	9.6	*	0.0	14.0	*
Transient Cerebral Ischemia	8	12.5	2.3	*	12.5	5.4	*	12.5	8.6	*
Stroke	13	7.7	19.4	*	23.1	25.8	*	46.2	30.4	*
Hip Fracture	8	12.5	7.2	*	12.5	13.0	*	12.5	16.8	*
Sepsis	1	0.0	22.3	*	0.0	26.8	*	0.0	32.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	3.5	*	0.0	6.7	*	0.0	9.0	*
Open Reduction of Hip Fracture	5	20.0	8.0	*	20.0	15.2	*	20.0	19.9	*
Prostatectomy	8	0.0	1.0	*	0.0	2.4	*	0.0	4.0	*
Cholecystectomy	11	0.0	1.8	*	0.0	2.9	*	0.0	3.6	*
Hysterectomy	5	0.0	0.9	*	0.0	2.0	*	0.0	2.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	40
Occupancy Rate	43
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	22
Percent of Physicians Board Certified Specialists	82
Medical Residents/Interns	0
Registered Nurses	31
Licensed Practical Nurses	7

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

CHARLEVOIX AREA HOSPITAL

Medicare Provider Number: 230124

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	402	7.7	9.1	1.9	13.2	13.6	1.8	17.7	17.2	2.1
CONDITIONS:										
Acute Myocardial Infarction	9	22.2	29.7	*	22.2	32.9	*	22.2	36.8	*
Congestive Heart Failure	16	12.5	16.5	*	18.8	24.5	*	37.5	31.1	*
Pneumonia/Influenza	40	12.5	15.4	*	17.5	20.8	*	20.0	25.0	*
Chronic Obstructive Pulmonary Disease	1	0.0	16.7	*	0.0	24.9	*	0.0	31.4	*
Transient Cerebral Ischemia	4	0.0	3.2	*	0.0	7.6	*	0.0	12.1	*
Stroke	5	40.0	18.1	*	40.0	24.1	*	40.0	28.3	*
Hip Fracture	9	0.0	6.4	*	11.1	11.3	*	22.2	14.4	*
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	0.0	6.5	*	20.0	11.8	*	40.0	15.0	*
Open Reduction of Hip Fracture	4	0.0	4.9	*	0.0	9.4	*	0.0	12.5	*
Prostatectomy	12	0.0	1.3	*	0.0	3.3	*	0.0	5.5	*
Cholecystectomy	17	0.0	1.9	*	0.0	3.4	*	0.0	4.4	*
Hysterectomy	2	0.0	3.0	*	0.0	5.5	*	0.0	7.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	369	8.1	8.5	1.7	15.2	12.9	2.0	19.0	16.6	2.2
CONDITIONS:										
Acute Myocardial Infarction	14	28.6	30.4	*	42.9	33.5	*	42.9	37.1	*
Congestive Heart Failure	17	5.9	14.3	*	23.5	21.8	*	29.4	28.4	*
Pneumonia/Influenza	26	7.7	15.7	*	15.4	21.6	*	26.9	26.0	*
Chronic Obstructive Pulmonary Disease	5	0.0	9.2	*	0.0	16.7	*	0.0	23.1	*
Transient Cerebral Ischemia	10	0.0	1.7	*	0.0	3.6	*	0.0	5.8	*
Stroke	14	14.3	17.2	*	28.6	23.4	*	35.7	27.7	*
Hip Fracture	6	16.7	6.7	*	33.3	13.1	*	33.3	17.8	*
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	25.0	5.5	*	50.0	10.8	*	50.0	14.9	*
Open Reduction of Hip Fracture	2	0.0	7.1	*	0.0	14.9	*	0.0	20.9	*
Prostatectomy	6	0.0	1.8	*	0.0	3.9	*	0.0	5.8	*
Cholecystectomy	5	0.0	4.3	*	0.0	8.5	*	0.0	12.3	*
Hysterectomy	4	0.0	0.4	*	0.0	0.7	*	0.0	1.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

CHELSEA COMMUNITY HOSPITAL

775 S Main St
Chelsea, MI 48118

Medicare Provider Number: 230259

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	591	9.3	9.3	1.2	13.5	13.8	1.5	15.7	17.4	2.0
CONDITIONS:										
Acute Myocardial Infarction	34	23.5	31.1	*	35.3	34.3	*	35.3	37.6	*
Congestive Heart Failure	28	21.4	15.2	*	21.4	23.2	*	25.0	29.8	*
Pneumonia/Influenza	32	9.4	17.3	*	12.5	23.4	*	12.5	28.1	*
Chronic Obstructive Pulmonary Disease	7	14.3	5.2	*	28.6	8.8	*	42.9	12.3	*
Transient Cerebral Ischemia	3	0.0	1.2	*	0.0	2.5	*	0.0	3.8	*
Stroke	19	5.3	18.0	*	10.5	23.7	*	10.5	27.7	*
Hip Fracture	1	0.0	3.6	*	0.0	6.9	*	0.0	9.8	*
Sepsis	5	40.0	19.6	*	40.0	24.5	*	40.0	29.1	*
PROCEDURES:										
Angioplasty	1	0.0	10.8	*	0.0	11.5	*	0.0	12.6	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	100.0	20.2	*	100.0	26.5	*	100.0	29.0	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	17	0.0	0.7	*	0.0	1.6	*	0.0	2.9	*
Cholecystectomy	10	0.0	2.5	*	10.0	5.0	*	10.0	6.9	*
Hysterectomy	5	0.0	0.2	*	0.0	0.3	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	129
Occupancy Rate	66
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	98
Percent of Physicians Board Certified Specialists	96
Medical Residents/Interns	0
Registered Nurses	122
Licensed Practical Nurses	9

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

CHELSEA COMMUNITY HOSPITAL

Medicare Provider Number: 230259

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	623	8.2	9.0	1.2	12.0	13.0	1.5	15.9	16.3	1.5
CONDITIONS:										
Acute Myocardial Infarction	42	23.8	29.3	*	23.8	32.9	*	33.3	36.6	*
Congestive Heart Failure	33	15.2	17.9	*	15.2	26.9	*	24.2	34.0	*
Pneumonia/Influenza	21	14.3	17.0	*	19.0	23.4	*	28.6	28.1	*
Chronic Obstructive Pulmonary Disease	13	0.0	10.5	*	0.0	17.9	*	0.0	23.9	*
Transient Cerebral Ischemia	11	0.0	2.1	*	0.0	5.1	*	0.0	8.5	*
Stroke	22	18.2	20.5	*	22.7	27.4	*	22.7	31.8	*
Hip Fracture	2	50.0	5.3	*	50.0	9.2	*	100.0	11.8	*
Sepsis	16	12.5	30.8	*	12.5	38.7	*	12.5	44.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	30	3.3	0.5	*	3.3	1.3	*	3.3	2.2	*
Cholecystectomy	15	0.0	1.3	*	0.0	2.3	*	0.0	3.1	*
Hysterectomy	2	0.0	0.3	*	0.0	0.8	*	0.0	1.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	469	10.9	10.7	1.5	15.6	15.8	1.7	19.8	19.7	1.9
CONDITIONS:										
Acute Myocardial Infarction	29	31.0	31.8	*	34.5	35.7	*	37.9	39.4	*
Congestive Heart Failure	37	13.5	18.7	*	18.9	28.1	*	32.4	35.6	*
Pneumonia/Influenza	22	13.6	18.7	*	13.6	25.7	*	13.6	31.1	*
Chronic Obstructive Pulmonary Disease	4	0.0	14.7	*	0.0	23.2	*	0.0	29.7	*
Transient Cerebral Ischemia	5	0.0	1.6	*	0.0	3.7	*	0.0	6.1	*
Stroke	23	21.7	22.0	*	21.7	29.5	*	26.1	34.3	*
Hip Fracture	0									
Sepsis	6	16.7	28.1	*	16.7	34.9	*	16.7	40.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	35	8.6	1.5	*	11.4	3.5	*	11.4	5.5	*
Cholecystectomy	10	0.0	1.0	*	0.0	1.8	*	0.0	2.4	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

CHIPPEWA COUNTY WAR MEMORIAL HOSPITAL

500 Osborn Blvd
Sault Ste Marie, MI 49783

Medicare Provider Number: 230239

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	697	7.7	9.9	1.8	12.8	14.4	2.1	15.8	18.1	2.0
CONDITIONS:										
Acute Myocardial Infarction	46	13.0	30.2	*	19.6	33.7	*	26.1	37.3	*
Congestive Heart Failure	45	11.1	12.2	*	17.8	18.9	*	22.2	24.9	*
Pneumonia/Influenza	47	14.9	14.7	*	19.1	20.9	*	23.4	25.9	*
Chronic Obstructive Pulmonary Disease	8	0.0	6.2	*	12.5	11.6	*	12.5	17.0	*
Transient Cerebral Ischemia	7	0.0	2.1	*	0.0	4.7	*	14.3	7.6	*
Stroke	35	11.4	17.8	*	17.1	24.2	*	17.1	28.6	*
Hip Fracture	19	10.5	5.6	*	21.1	10.5	*	21.1	14.1	*
Sepsis	19	15.8	19.3	*	21.1	25.2	*	26.3	30.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	1.5	*	0.0	2.9	*	0.0	4.8	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	13	0.0	3.0	*	7.7	6.0	*	7.7	8.6	*
Open Reduction of Hip Fracture	10	10.0	4.7	*	20.0	8.7	*	20.0	11.3	*
Prostatectomy	0									
Cholecystectomy	16	0.0	2.3	*	0.0	4.0	*	0.0	5.2	*
Hysterectomy	3	0.0	0.2	*	0.0	0.5	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	157
Occupancy Rate	64
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	21
Percent of Physicians Board Certified Specialists	71
Medical Residents/Interns	0
Registered Nurses	79
Licensed Practical Nurses	17

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

CHIPPEWA COUNTY WAR MEMORIAL HOSPITAL

Medicare Provider Number: 230239

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	749	10.4	10.4	1.4	15.8	15.3	1.5	18.2	19.1	1.7
CONDITIONS:										
Acute Myocardial Infarction	44	22.7	29.8	*	29.5	33.5	*	29.5	37.1	*
Congestive Heart Failure	36	11.1	13.4	*	19.4	20.5	*	19.4	26.6	*
Pneumonia/Influenza	52	23.1	17.7	5.6	30.8	23.6	7.8	30.8	28.3	6.3
Chronic Obstructive Pulmonary Disease	16	6.3	8.5	*	18.8	15.5	*	18.8	21.7	*
Transient Cerebral Ischemia	6	0.0	2.4	*	0.0	5.6	*	0.0	9.1	*
Stroke	34	26.5	23.2	*	29.4	31.2	*	35.3	36.0	*
Hip Fracture	18	5.6	4.7	*	11.1	9.2	*	16.7	12.5	*
Sepsis	8	12.5	25.1	*	37.5	31.6	*	37.5	37.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	16	6.3	1.9	*	6.3	3.8	*	6.3	5.3	*
Open Reduction of Hip Fracture	10	0.0	4.3	*	10.0	8.7	*	20.0	12.1	*
Prostatectomy	11	0.0	1.2	*	0.0	3.0	*	0.0	5.0	*
Cholecystectomy	14	0.0	2.0	*	0.0	3.6	*	0.0	4.5	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	799	9.3	9.5	1.1	14.1	14.2	1.5	17.1	17.8	1.7
CONDITIONS:										
Acute Myocardial Infarction	45	24.4	30.7	*	28.9	33.9	*	31.1	37.1	*
Congestive Heart Failure	40	10.0	15.0	*	22.5	22.8	*	27.5	29.2	*
Pneumonia/Influenza	42	7.1	12.6	*	11.9	17.5	*	11.9	21.6	*
Chronic Obstructive Pulmonary Disease	23	4.3	12.7	*	17.4	20.0	*	34.8	25.6	*
Transient Cerebral Ischemia	7	0.0	1.9	*	0.0	4.3	*	0.0	6.9	*
Stroke	35	20.0	18.7	*	22.9	25.4	*	22.9	29.9	*
Hip Fracture	12	8.3	5.4	*	25.0	9.9	*	25.0	13.1	*
Sepsis	5	0.0	13.5	*	0.0	18.8	*	0.0	23.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	16	0.0	3.1	*	18.8	6.0	*	18.8	8.1	*
Open Reduction of Hip Fracture	2	0.0	3.5	*	0.0	6.9	*	0.0	9.4	*
Prostatectomy	18	0.0	1.3	*	0.0	3.3	*	5.6	5.6	*
Cholecystectomy	16	0.0	2.3	*	0.0	4.1	*	0.0	5.3	*
Hysterectomy	2	0.0	0.1	*	0.0	0.2	*	0.0	0.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

CLINTON MEMORIAL HOSPITAL

805 S Oakland
St Johns, MI 48879

Medicare Provider Number: 230103

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	361	9.7	9.8	1.7	13.9	14.2	1.9	18.3	17.7	2.1
CONDITIONS:										
Acute Myocardial Infarction	13	38.5	26.6	*	38.5	29.8	*	46.2	33.1	*
Congestive Heart Failure	20	25.0	17.4	*	35.0	24.5	*	45.0	30.8	*
Pneumonia/Influenza	27	3.7	14.3	*	3.7	19.6	*	14.8	23.7	*
Chronic Obstructive Pulmonary Disease	7	0.0	4.5	*	0.0	9.6	*	28.6	14.7	*
Transient Cerebral Ischemia	3	0.0	1.5	*	33.3	3.3	*	33.3	5.3	*
Stroke	27	22.2	23.0	*	29.6	29.1	*	29.6	33.8	*
Hip Fracture	8	12.5	9.3	*	25.0	16.5	*	25.0	21.0	*
Sepsis	1	0.0	22.5	*	0.0	31.5	*	0.0	36.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	8.9	*	100.0	18.3	*	100.0	24.3	*
Open Reduction of Hip Fracture	4	25.0	12.2	*	25.0	22.1	*	25.0	28.1	*
Prostatectomy	8	0.0	0.7	*	0.0	1.7	*	0.0	2.9	*
Cholecystectomy	7	0.0	1.3	*	0.0	2.2	*	0.0	2.8	*
Hysterectomy	5	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	48
Occupancy Rate	33
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	43
Percent of Physicians Board Certified Specialists	77
Medical Residents/Interns	0
Registered Nurses	34
Licensed Practical Nurses	12

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

CLINTON MEMORIAL HOSPITAL

Medicare Provider Number: 230103

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	322	12.1	10.5	2.2	17.4	15.4	3.7	20.5	19.2	3.3
CONDITIONS:										
Acute Myocardial Infarction	10	20.0	23.9	*	40.0	27.6	*	40.0	31.5	*
Congestive Heart Failure	20	20.0	19.4	*	40.0	29.8	*	50.0	37.8	*
Pneumonia/Influenza	31	19.4	16.4	*	25.8	22.1	*	35.5	26.8	*
Chronic Obstructive Pulmonary Disease	8	12.5	5.1	*	12.5	9.2	*	12.5	13.0	*
Transient Cerebral Ischemia	3	0.0	4.6	*	0.0	10.2	*	0.0	16.6	*
Stroke	23	13.0	16.8	*	13.0	22.3	*	13.0	26.7	*
Hip Fracture	4	0.0	4.9	*	0.0	9.1	*	0.0	12.2	*
Sepsis	6	16.7	29.8	*	33.3	36.8	*	33.3	42.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	2	0.0	5.1	*	0.0	9.4	*	0.0	12.6	*
Prostatectomy	4	0.0	0.8	*	0.0	2.1	*	0.0	3.8	*
Cholecystectomy	11	0.0	1.1	*	0.0	1.8	*	0.0	2.5	*
Hysterectomy	4	0.0	0.2	*	0.0	0.4	*	0.0	0.5	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	313	7.7	9.1	2.6	11.8	13.7	2.9	16.0	17.3	2.5
CONDITIONS:										
Acute Myocardial Infarction	9	44.4	28.3	*	66.7	31.6	*	66.7	35.2	*
Congestive Heart Failure	19	10.5	16.9	*	21.1	25.8	*	36.8	33.2	*
Pneumonia/Influenza	18	16.7	18.1	*	27.8	24.4	*	27.8	29.3	*
Chronic Obstructive Pulmonary Disease	11	9.1	15.5	*	9.1	24.4	*	18.2	30.3	*
Transient Cerebral Ischemia	1	0.0	1.8	*	0.0	4.1	*	0.0	6.6	*
Stroke	7	42.9	23.6	*	42.9	30.7	*	57.1	36.2	*
Hip Fracture	12	0.0	4.9	*	0.0	9.2	*	0.0	12.3	*
Sepsis	1	100.0	29.7	*	100.0	45.8	*	100.0	57.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	3.4	*	0.0	6.9	*	0.0	9.5	*
Open Reduction of Hip Fracture	7	0.0	4.2	*	0.0	8.6	*	0.0	11.9	*
Prostatectomy	11	0.0	0.9	*	0.0	2.3	*	0.0	4.0	*
Cholecystectomy	15	6.7	4.1	*	6.7	6.7	*	6.7	8.2	*
Hysterectomy	0									

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

COMMUNITY HEALTH CENTER

274 E Chicago St
Coldwater, MI 49036

Medicare Provider Number: 230022

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	955	11.1	9.3	1.8	15.5	14.0	1.9	19.5	17.7	1.9
CONDITIONS:										
Acute Myocardial Infarction	30	43.3	29.9	*	53.3	32.8	*	56.7	36.1	*
Congestive Heart Failure	53	22.6	15.7	6.9	26.4	24.2	6.4	32.1	31.1	6.5
Pneumonia/Influenza	57	19.3	13.7	8.3	29.8	19.1	8.1	29.8	23.2	6.9
Chronic Obstructive Pulmonary Disease	13	15.4	8.1	*	15.4	12.9	*	15.4	17.1	*
Transient Cerebral Ischemia	8	0.0	1.5	*	0.0	3.2	*	0.0	5.1	*
Stroke	29	17.2	19.7	*	27.6	26.5	*	37.9	30.8	*
Hip Fracture	46	0.0	6.2	*	4.3	10.8	*	6.5	13.9	*
Sepsis	21	33.3	31.4	*	38.1	37.9	*	38.1	43.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	4.7	*	0.0	7.7	*	0.0	10.4	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	32	6.3	3.1	*	12.5	6.1	*	12.5	8.4	*
Open Reduction of Hip Fracture	8	0.0	5.9	*	0.0	11.1	*	0.0	14.6	*
Prostatectomy	43	0.0	0.8	*	2.3	2.0	*	4.7	3.4	*
Cholecystectomy	32	3.1	2.7	*	9.4	5.0	*	15.6	6.7	*
Hysterectomy	10	0.0	4.0	*	0.0	4.6	*	0.0	5.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	130
Occupancy Rate	52
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	41
Percent of Physicians Board Certified Specialists	44
Medical Residents/Interns	0
Registered Nurses	104
Licensed Practical Nurses	50

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

COMMUNITY HEALTH CENTER

Medicare Provider Number: 230022

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	988	9.5	10.1	1.4	14.4	15.3	1.7	18.6	19.3	1.5
CONDITIONS:										
Acute Myocardial Infarction	35	20.0	28.5	*	22.9	32.4	*	34.3	36.2	*
Congestive Heart Failure	50	18.0	16.2	*	24.0	24.6	*	32.0	31.5	*
Pneumonia/Influenza	47	14.9	17.2	*	21.3	23.4	*	23.4	28.1	*
Chronic Obstructive Pulmonary Disease	19	5.3	12.7	*	15.8	21.0	*	36.8	27.8	*
Transient Cerebral Ischemia	7	0.0	1.9	*	0.0	4.5	*	0.0	7.1	*
Stroke	24	16.7	23.5	*	37.5	31.5	*	37.5	36.5	*
Hip Fracture	43	9.3	6.6	*	11.6	12.2	*	11.6	15.9	*
Sepsis	25	20.0	30.8	*	24.0	38.3	*	32.0	44.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	0.0	4.5	*	33.3	8.8	*	33.3	12.4	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	33	6.1	3.1	*	9.1	6.2	*	9.1	8.4	*
Open Reduction of Hip Fracture	12	0.0	7.7	*	0.0	14.4	*	0.0	18.6	*
Prostatectomy	38	0.0	0.6	*	0.0	1.4	*	0.0	2.5	*
Cholecystectomy	27	0.0	3.4	*	0.0	6.3	*	0.0	8.3	*
Hysterectomy	10	0.0	0.6	*	0.0	1.4	*	0.0	2.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	956	9.6	9.5	1.0	13.8	14.2	1.2	17.8	17.9	1.2
CONDITIONS:										
Acute Myocardial Infarction	28	25.0	31.3	*	28.6	34.6	*	39.3	38.0	*
Congestive Heart Failure	43	20.9	15.0	*	25.6	22.9	*	32.6	29.5	*
Pneumonia/Influenza	56	10.7	16.7	6.1	12.5	22.8	7.7	14.3	27.2	9.2
Chronic Obstructive Pulmonary Disease	18	22.2	12.1	*	22.2	19.9	*	22.2	25.9	*
Transient Cerebral Ischemia	11	9.1	2.4	*	9.1	5.1	*	9.1	8.1	*
Stroke	28	14.3	19.8	*	17.9	26.4	*	28.6	30.6	*
Hip Fracture	31	3.2	5.7	*	3.2	10.6	*	9.7	14.0	*
Sepsis	15	20.0	24.3	*	20.0	32.3	*	26.7	38.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	5	0.0	4.5	*	0.0	9.2	*	0.0	13.8	*
Carotid Endarterectomy	1	0.0	7.1	*	0.0	19.1	*	0.0	33.1	*
Hip Replacement/Reconstruction	18	5.6	2.2	*	5.6	4.3	*	11.1	5.8	*
Open Reduction of Hip Fracture	11	0.0	4.6	*	0.0	8.6	*	0.0	11.4	*
Prostatectomy	22	0.0	0.7	*	0.0	1.9	*	4.5	3.3	*
Cholecystectomy	35	0.0	3.3	*	0.0	6.2	*	2.9	8.5	*
Hysterectomy	12	0.0	0.6	*	0.0	1.2	*	8.3	1.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

COMMUNITY HOSPITAL

Medical Park Dr
Watervliet, MI 49098

Medicare Provider Number: 230078

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	436	7.6	9.0	1.8	13.5	13.9	1.7	17.2	17.9	2.3
CONDITIONS:										
Acute Myocardial Infarction	5	40.0	23.9	*	40.0	26.5	*	40.0	29.3	*
Congestive Heart Failure	42	11.9	13.9	*	23.8	22.0	*	33.3	28.9	*
Pneumonia/Influenza	26	15.4	13.7	*	34.6	18.8	*	34.6	22.9	*
Chronic Obstructive Pulmonary Disease	7	0.0	6.4	*	14.3	12.8	*	28.6	19.0	*
Transient Cerebral Ischemia	10	0.0	2.3	*	0.0	5.0	*	0.0	7.9	*
Stroke	18	22.2	20.8	*	33.3	27.0	*	50.0	31.7	*
Hip Fracture	4	0.0	4.9	*	0.0	9.0	*	0.0	11.8	*
Sepsis	4	0.0	22.9	*	0.0	30.4	*	0.0	37.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	1.1	*	0.0	2.3	*	0.0	3.9	*
Open Reduction of Hip Fracture	4	0.0	4.3	*	0.0	8.2	*	0.0	11.0	*
Prostatectomy	12	0.0	1.2	*	8.3	2.9	*	8.3	4.9	*
Cholecystectomy	6	0.0	1.4	*	0.0	2.1	*	16.7	2.6	*
Hysterectomy	2	0.0	0.1	*	0.0	0.2	*	0.0	0.4	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	70
Occupancy Rate	36
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	55
Percent of Physicians Board Certified Specialists	76
Medical Residents/Interns	0
Registered Nurses	43
Licensed Practical Nurses	10

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

COMMUNITY HOSPITAL

Medicare Provider Number: 230078

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	502	7.4	9.1	1.5	12.0	14.1	1.8	15.3	18.2	2.1
CONDITIONS:										
Acute Myocardial Infarction	11	27.3	29.6	*	36.4	32.2	*	36.4	35.1	*
Congestive Heart Failure	42	2.4	15.9	*	14.3	24.7	*	19.0	32.0	*
Pneumonia/Influenza	34	5.9	14.6	*	8.8	19.6	*	8.8	23.6	*
Chronic Obstructive Pulmonary Disease	9	11.1	10.1	*	22.2	17.0	*	33.3	22.4	*
Transient Cerebral Ischemia	6	0.0	1.7	*	0.0	3.3	*	0.0	5.1	*
Stroke	17	17.6	19.5	*	29.4	26.3	*	35.3	31.0	*
Hip Fracture	7	28.6	7.6	*	28.6	13.7	*	42.9	17.6	*
Sepsis	1	0.0	18.7	*	0.0	22.8	*	0.0	28.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	5.6	*	0.0	12.9	*	25.0	19.6	*
Open Reduction of Hip Fracture	5	40.0	7.7	*	40.0	14.5	*	40.0	18.9	*
Prostatectomy	13	0.0	1.0	*	0.0	2.4	*	0.0	4.2	*
Cholecystectomy	7	0.0	1.8	*	0.0	3.2	*	14.3	4.5	*
Hysterectomy	2	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	518	6.4	8.2	2.2	11.0	12.9	2.3	16.0	16.8	2.1
CONDITIONS:										
Acute Myocardial Infarction	15	13.3	28.9	*	20.0	31.9	*	20.0	35.3	*
Congestive Heart Failure	41	14.6	15.7	*	19.5	24.3	*	22.0	31.6	*
Pneumonia/Influenza	37	5.4	13.1	*	5.4	17.9	*	8.1	21.8	*
Chronic Obstructive Pulmonary Disease	7	28.6	11.0	*	42.9	20.3	*	42.9	27.7	*
Transient Cerebral Ischemia	10	0.0	2.2	*	0.0	4.8	*	0.0	7.7	*
Stroke	16	6.3	19.3	*	25.0	27.6	*	31.3	33.2	*
Hip Fracture	6	0.0	5.3	*	0.0	9.4	*	0.0	12.1	*
Sepsis	4	25.0	22.7	*	25.0	32.5	*	25.0	39.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	1.2	*	0.0	2.6	*	0.0	4.2	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	0.0	4.3	*	0.0	7.8	*	0.0	10.0	*
Open Reduction of Hip Fracture	3	0.0	5.2	*	0.0	9.8	*	0.0	12.9	*
Prostatectomy	12	0.0	1.5	*	0.0	3.9	*	0.0	6.6	*
Cholecystectomy	6	0.0	1.4	*	0.0	2.3	*	0.0	3.0	*
Hysterectomy	5	0.0	1.7	*	0.0	3.5	*	0.0	5.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

COMMUNITY MEMORIAL HOSPITAL

748 S Main
Cheboygan, MI 49721

Medicare Provider Number: 230034

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	743	7.5	10.4	1.4	11.6	15.1	1.7	13.9	18.9	2.0
CONDITIONS:										
Acute Myocardial Infarction	35	25.7	28.8	*	31.4	32.2	*	31.4	35.7	*
Congestive Heart Failure	40	7.5	15.1	*	15.0	22.6	*	15.0	29.2	*
Pneumonia/Influenza	51	11.8	17.1	8.4	21.6	23.1	7.2	27.5	27.7	7.1
Chronic Obstructive Pulmonary Disease	15	20.0	14.2	*	26.7	24.2	*	33.3	32.3	*
Transient Cerebral Ischemia	6	0.0	2.4	*	0.0	5.4	*	0.0	8.6	*
Stroke	20	0.0	23.6	*	5.0	30.6	*	15.0	35.4	*
Hip Fracture	20	5.0	7.9	*	5.0	13.7	*	5.0	17.2	*
Sepsis	12	8.3	27.5	*	8.3	34.1	*	8.3	39.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	6	0.0	6.2	*	0.0	11.4	*	0.0	14.7	*
Open Reduction of Hip Fracture	12	8.3	7.8	*	8.3	13.8	*	8.3	17.5	*
Prostatectomy	60	0.0	0.5	*	0.0	1.2	*	0.0	2.2	*
Cholecystectomy	22	4.5	1.8	*	9.1	3.2	*	13.6	4.3	*
Hysterectomy	4	0.0	2.1	*	0.0	3.8	*	25.0	5.1	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	129
Occupancy Rate	66
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	32
Percent of Physicians Board Certified Specialists	56
Medical Residents/Interns	0
Registered Nurses	54
Licensed Practical Nurses	9

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

COMMUNITY MEMORIAL HOSPITAL

Medicare Provider Number: 230034

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	696	7.0	10.0	1.5	10.6	14.6	1.9	13.8	18.2	2.1
CONDITIONS:										
Acute Myocardial Infarction	20	15.0	25.2	*	30.0	28.7	*	30.0	32.4	*
Congestive Heart Failure	32	3.1	17.3	*	9.4	25.3	*	15.6	32.4	*
Pneumonia/Influenza	49	10.2	19.2	*	12.2	25.7	*	20.4	30.5	*
Chronic Obstructive Pulmonary Disease	19	15.8	13.0	*	15.8	22.2	*	15.8	29.2	*
Transient Cerebral Ischemia	14	0.0	2.8	*	0.0	6.4	*	7.1	9.9	*
Stroke	18	27.8	22.5	*	27.8	28.7	*	27.8	33.2	*
Hip Fracture	19	0.0	7.8	*	5.3	13.6	*	5.3	17.1	*
Sepsis	11	18.2	26.8	*	36.4	34.7	*	36.4	41.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	8	0.0	7.2	*	12.5	13.5	*	12.5	17.3	*
Open Reduction of Hip Fracture	10	0.0	6.8	*	0.0	12.3	*	0.0	15.7	*
Prostatectomy	52	0.0	0.8	1.4	1.9	1.9	1.9	1.9	3.1	2.6
Cholecystectomy	10	0.0	2.2	*	10.0	4.0	*	10.0	5.1	*
Hysterectomy	9	0.0	0.7	*	0.0	1.3	*	0.0	1.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	702	8.4	9.9	1.4	12.8	14.7	2.0	15.5	18.5	2.3
CONDITIONS:										
Acute Myocardial Infarction	23	21.7	27.5	*	21.7	30.7	*	30.4	34.0	*
Congestive Heart Failure	54	14.8	16.0	6.5	27.8	24.0	7.6	35.2	30.9	9.0
Pneumonia/Influenza	40	20.0	18.1	*	25.0	24.5	*	32.5	29.8	*
Chronic Obstructive Pulmonary Disease	24	0.0	15.3	*	8.3	23.7	*	8.3	29.5	*
Transient Cerebral Ischemia	8	0.0	3.1	*	12.5	7.2	*	25.0	11.5	*
Stroke	30	30.0	24.8	*	33.3	33.3	*	36.7	38.6	*
Hip Fracture	11	0.0	6.8	*	0.0	12.1	*	0.0	15.4	*
Sepsis	7	14.3	24.7	*	14.3	31.0	*	14.3	35.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	7	0.0	6.7	*	0.0	12.5	*	0.0	16.2	*
Open Reduction of Hip Fracture	3	0.0	4.1	*	0.0	7.1	*	0.0	9.1	*
Prostatectomy	35	2.9	1.0	*	2.9	2.4	*	2.9	4.0	*
Cholecystectomy	14	0.0	4.5	*	0.0	8.4	*	0.0	11.0	*
Hysterectomy	1	0.0	0.1	*	0.0	0.2	*	0.0	0.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

COTTAGE HOSPITAL

159 Kercheval Avenue
Grosse Pointe, MI 48236

Medicare Provider Number: 230135

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,289	10.8	10.9	0.9	16.1	16.8	1.3	19.0	21.2	2.0
CONDITIONS:										
Acute Myocardial Infarction	44	25.0	30.4	*	27.3	34.4	*	29.5	37.9	*
Congestive Heart Failure	72	18.1	17.3	4.9	29.2	26.6	6.7	37.5	34.0	9.8
Pneumonia/Influenza	60	18.3	17.2	7.3	30.0	23.2	10.7	33.3	27.9	11.5
Chronic Obstructive Pulmonary Disease	11	0.0	10.5	*	0.0	19.0	*	9.1	26.2	*
Transient Cerebral Ischemia	36	0.0	2.4	*	0.0	5.4	*	2.8	8.6	*
Stroke	79	11.4	19.7	6.9	17.7	27.7	8.6	21.5	32.6	9.1
Hip Fracture	41	12.2	8.8	*	22.0	15.9	*	24.4	20.7	*
Sepsis	18	55.6	28.5	*	61.1	37.8	*	61.1	44.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	21	4.8	2.5	*	4.8	5.6	*	14.3	8.7	*
Carotid Endarterectomy	10	0.0	1.9	*	0.0	3.7	*	0.0	5.6	*
Hip Replacement/Reconstruction	25	4.0	5.5	*	8.0	10.4	*	12.0	14.2	*
Open Reduction of Hip Fracture	18	11.1	8.2	*	22.2	15.6	*	22.2	20.7	*
Prostatectomy	65	0.0	1.1	1.6	1.5	2.5	2.6	3.1	4.0	3.3
Cholecystectomy	16	0.0	2.3	*	0.0	4.0	*	6.3	5.2	*
Hysterectomy	6	0.0	0.3	*	0.0	0.5	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	191
Occupancy Rate	58
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	157
Percent of Physicians Board Certified Specialists	89
Medical Residents/Interns	0
Registered Nurses	110
Licensed Practical Nurses	34

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

COTTAGE HOSPITAL

Medicare Provider Number: 230135

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,275	12.8	12.0	1.4	19.0	17.8	1.7	22.3	22.1	1.7
CONDITIONS:										
Acute Myocardial Infarction	42	33.3	29.2	*	38.1	32.4	*	38.1	35.9	*
Congestive Heart Failure	79	16.5	18.3	5.4	24.1	27.4	5.3	35.4	34.6	5.5
Pneumonia/Influenza	50	24.0	19.3	*	26.0	25.8	*	30.0	30.6	*
Chronic Obstructive Pulmonary Disease	17	11.8	9.8	*	11.8	16.2	*	11.8	21.7	*
Transient Cerebral Ischemia	27	3.7	3.0	*	3.7	6.5	*	3.7	9.8	*
Stroke	39	20.5	25.2	*	35.9	32.0	*	38.5	36.3	*
Hip Fracture	47	6.4	8.5	*	12.8	15.1	*	19.1	19.2	*
Sepsis	20	50.0	29.0	*	50.0	36.3	*	55.0	41.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	19	0.0	7.0	*	5.3	11.3	*	5.3	14.8	*
Carotid Endarterectomy	7	0.0	1.9	*	0.0	3.5	*	0.0	5.2	*
Hip Replacement/Reconstruction	21	4.8	5.6	*	9.5	10.7	*	14.3	13.8	*
Open Reduction of Hip Fracture	24	8.3	8.7	*	12.5	16.1	*	16.7	20.7	*
Prostatectomy	38	2.6	2.0	*	2.6	4.3	*	2.6	6.6	*
Cholecystectomy	35	2.9	3.5	*	5.7	5.9	*	5.7	7.4	*
Hysterectomy	11	9.1	2.4	*	9.1	4.8	*	9.1	6.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,235	14.1	11.2	1.4	20.2	17.0	1.6	24.1	21.3	1.6
CONDITIONS:										
Acute Myocardial Infarction	40	37.5	33.3	*	40.0	36.7	*	47.5	40.1	*
Congestive Heart Failure	66	24.2	20.9	6.5	37.9	30.5	10.8	47.0	38.0	12.3
Pneumonia/Influenza	37	8.1	17.3	*	18.9	23.6	*	21.6	28.5	*
Chronic Obstructive Pulmonary Disease	24	16.7	11.8	*	20.8	18.5	*	29.2	23.4	*
Transient Cerebral Ischemia	24	0.0	2.0	*	0.0	4.2	*	0.0	6.6	*
Stroke	60	23.3	21.5	5.9	36.7	29.5	9.2	38.3	34.2	10.0
Hip Fracture	38	13.2	8.0	*	15.8	14.0	*	15.8	18.0	*
Sepsis	22	18.2	26.1	*	22.7	33.7	*	22.7	39.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	18	5.6	3.5	*	16.7	7.5	*	16.7	11.5	*
Carotid Endarterectomy	3	0.0	1.4	*	0.0	2.4	*	0.0	3.4	*
Hip Replacement/Reconstruction	13	7.7	6.3	*	7.7	11.0	*	7.7	14.2	*
Open Reduction of Hip Fracture	22	4.5	7.4	*	9.1	13.7	*	9.1	17.8	*
Prostatectomy	43	2.3	1.0	*	2.3	2.3	*	4.7	3.9	*
Cholecystectomy	27	7.4	3.9	*	7.4	6.8	*	7.4	8.7	*
Hysterectomy	11	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

CRITTENTON HOSPITAL

1101 W University Drive
Rochester, MI 48063

Medicare Provider Number: 230254

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,987	9.3	9.2	0.9	14.0	14.0	0.8	17.8	17.7	0.9
CONDITIONS:										
Acute Myocardial Infarction	59	28.8	26.5	7.1	32.2	29.9	7.3	35.6	33.2	8.1
Congestive Heart Failure	117	17.1	16.2	4.0	29.1	25.1	5.4	30.8	32.4	5.1
Pneumonia/Influenza	50	16.0	18.6	*	24.0	25.0	*	30.0	29.9	*
Chronic Obstructive Pulmonary Disease	24	0.0	17.0	*	0.0	24.2	*	4.2	29.7	*
Transient Cerebral Ischemia	58	1.7	2.2	2.4	3.4	4.8	3.3	6.9	7.7	3.7
Stroke	60	16.7	21.8	5.7	20.0	28.9	6.6	26.7	33.3	6.4
Hip Fracture	49	4.1	7.9	*	16.3	13.9	*	18.4	17.8	*
Sepsis	12	33.3	26.2	*	33.3	33.3	*	41.7	38.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	26	0.0	4.7	*	0.0	8.2	*	3.8	11.3	*
Carotid Endarterectomy	5	0.0	1.1	*	0.0	1.9	*	0.0	2.8	*
Hip Replacement/Reconstruction	34	0.0	5.2	*	11.8	9.9	*	14.7	13.1	*
Open Reduction of Hip Fracture	23	4.3	6.1	*	13.0	11.0	*	13.0	14.0	*
Prostatectomy	86	1.2	0.7	1.0	1.2	1.7	1.6	3.5	2.9	1.9
Cholecystectomy	50	4.0	1.8	*	6.0	3.0	*	6.0	4.0	*
Hysterectomy	11	0.0	0.3	*	0.0	0.6	*	0.0	1.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	239
Occupancy Rate	68
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	180
Percent of Physicians Board Certified Specialists	79
Medical Residents/Interns	0
Registered Nurses	264
Licensed Practical Nurses	68

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	Yes
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

CRITTENTON HOSPITAL

Medicare Provider Number: 230254

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,936	8.9	9.2	0.7	13.9	14.0	0.9	17.7	17.7	0.9
CONDITIONS:										
Acute Myocardial Infarction	64	21.9	27.0	8.9	26.6	30.4	7.6	31.3	34.0	6.3
Congestive Heart Failure	135	17.0	16.1	3.2	23.0	24.2	4.0	35.6	31.1	4.6
Pneumonia/Influenza	61	37.7	17.3	7.3	42.6	23.2	7.6	44.3	27.7	7.8
Chronic Obstructive Pulmonary Disease	39	7.7	12.8	*	17.9	20.4	*	25.6	26.6	*
Transient Cerebral Ischemia	58	1.7	2.3	2.0	3.4	5.0	3.2	8.6	7.9	3.6
Stroke	60	15.0	21.2	6.6	31.7	28.7	6.3	35.0	33.5	6.2
Hip Fracture	46	4.3	7.2	*	8.7	12.7	*	13.0	16.0	*
Sepsis	11	27.3	28.7	*	45.5	36.9	*	54.5	42.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	17	0.0	5.2	*	5.9	8.5	*	11.8	11.5	*
Carotid Endarterectomy	9	11.1	1.7	*	11.1	3.4	*	11.1	5.1	*
Hip Replacement/Reconstruction	31	0.0	3.8	*	3.2	7.4	*	3.2	10.0	*
Open Reduction of Hip Fracture	26	3.8	6.4	*	7.7	11.9	*	15.4	15.5	*
Prostatectomy	70	0.0	0.8	*	0.0	1.8	*	0.0	2.8	*
Cholecystectomy	53	3.8	3.6	2.7	3.8	6.4	4.2	3.8	8.3	5.3
Hysterectomy	15	0.0	0.9	*	0.0	1.6	*	0.0	2.1	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,855	9.4	8.7	0.7	14.0	13.3	0.9	17.4	16.9	0.9
CONDITIONS:										
Acute Myocardial Infarction	58	25.9	23.8	5.7	29.3	27.2	6.4	29.3	30.4	6.1
Congestive Heart Failure	117	20.5	16.8	4.8	27.4	24.9	5.3	36.8	31.7	6.7
Pneumonia/Influenza	50	22.0	20.1	*	30.0	26.9	*	36.0	32.3	*
Chronic Obstructive Pulmonary Disease	47	23.4	14.5	*	29.8	22.9	*	38.3	28.7	*
Transient Cerebral Ischemia	59	3.4	1.9	2.6	3.4	4.0	5.3	11.9	6.4	5.8
Stroke	60	21.7	23.9	7.1	28.3	30.9	7.9	31.7	35.3	8.8
Hip Fracture	37	10.8	6.5	*	16.2	11.5	*	16.2	14.6	*
Sepsis	9	22.2	24.4	*	33.3	32.2	*	33.3	38.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	30	6.7	4.7	*	16.7	8.7	*	16.7	11.8	*
Carotid Endarterectomy	9	0.0	1.4	*	0.0	2.6	*	11.1	3.8	*
Hip Replacement/Reconstruction	26	0.0	4.2	*	7.7	7.7	*	7.7	9.9	*
Open Reduction of Hip Fracture	19	21.1	5.9	*	21.1	10.9	*	21.1	14.1	*
Prostatectomy	72	0.0	1.0	1.5	1.4	2.4	2.0	2.8	4.0	2.6
Cholecystectomy	46	0.0	2.7	*	0.0	4.7	*	0.0	6.0	*
Hysterectomy	11	0.0	0.4	*	0.0	0.8	*	0.0	1.2	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

CRYSTAL FALLS COMMUNITY HOSPITAL

Michigan and 3rd St
Crystal Falls, MI 49920

Medicare Provider Number: 230194

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	209	10.0	10.9	3.2	14.4	16.4	3.7	17.7	20.5	3.8
CONDITIONS:										
Acute Myocardial Infarction	4	25.0	22.6	*	25.0	24.7	*	25.0	27.2	*
Congestive Heart Failure	15	0.0	15.0	*	0.0	22.6	*	13.3	29.0	*
Pneumonia/Influenza	6	16.7	18.3	*	33.3	24.5	*	33.3	29.6	*
Chronic Obstructive Pulmonary Disease	1	100.0	8.8	*	100.0	13.1	*	100.0	17.0	*
Transient Cerebral Ischemia	0									
Stroke	17	0.0	17.2	*	0.0	22.5	*	0.0	26.8	*
Hip Fracture	0									
Sepsis	2	0.0	26.7	*	0.0	32.1	*	0.0	37.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	4	0.0	2.5	*	0.0	4.7	*	0.0	6.3	*
Hysterectomy	2	0.0	1.1	*	0.0	2.6	*	0.0	4.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	35
Occupancy Rate	23
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	5
Percent of Physicians Board Certified Specialists	40
Medical Residents/Interns	0
Registered Nurses	12
Licensed Practical Nurses	9

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

CRYSTAL FALLS COMMUNITY HOSPITAL

Medicare Provider Number: 230194

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	231	8.2	11.4	3.5	14.3	16.7	3.7	17.7	20.8	3.8
CONDITIONS:										
Acute Myocardial Infarction	10	40.0	29.3	*	40.0	32.2	*	40.0	35.5	*
Congestive Heart Failure	18	16.7	16.0	*	33.3	24.7	*	33.3	31.9	*
Pneumonia/Influenza	11	9.1	14.3	*	9.1	19.1	*	9.1	23.2	*
Chronic Obstructive Pulmonary Disease	4	0.0	11.1	*	25.0	22.4	*	25.0	32.2	*
Transient Cerebral Ischemia	3	0.0	1.5	*	0.0	3.2	*	0.0	4.9	*
Stroke	12	8.3	24.4	*	33.3	31.7	*	33.3	36.9	*
Hip Fracture	0									
Sepsis	1	0.0	28.9	*	0.0	40.1	*	0.0	48.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	1.9	*	50.0	3.9	*	50.0	5.9	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	1	0.0	2.6	*	0.0	5.2	*	0.0	6.6	*
Hysterectomy	6	0.0	1.3	*	0.0	3.0	*	0.0	4.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	235	8.5	10.1	2.4	14.5	15.0	2.4	15.3	18.8	3.2
CONDITIONS:										
Acute Myocardial Infarction	10	30.0	31.9	*	30.0	35.4	*	30.0	38.9	*
Congestive Heart Failure	19	5.3	14.0	*	10.5	20.6	*	10.5	26.5	*
Pneumonia/Influenza	12	8.3	19.3	*	25.0	26.0	*	25.0	31.2	*
Chronic Obstructive Pulmonary Disease	2	0.0	17.7	*	0.0	25.5	*	50.0	31.2	*
Transient Cerebral Ischemia	3	0.0	2.5	*	33.3	5.7	*	33.3	9.3	*
Stroke	7	14.3	26.2	*	28.6	32.3	*	28.6	36.9	*
Hip Fracture	3	0.0	5.4	*	0.0	10.2	*	0.0	13.6	*
Sepsis	1	0.0	23.8	*	100.0	34.5	*	100.0	42.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	2.9	*	0.0	4.9	*	0.0	6.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	5	0.0	4.4	*	0.0	7.3	*	0.0	8.6	*
Hysterectomy	3	0.0	4.5	*	33.3	9.7	*	33.3	14.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

DECKERVILLE COMMUNITY HOSPITAL

3559 Pine St
Deckerville, MI 48427

Medicare Provider Number: 230154

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	142	19.0	13.0	3.9	23.9	18.6	5.4	29.6	22.9	5.6
CONDITIONS:										
Acute Myocardial Infarction	3	66.7	34.8	*	66.7	39.1	*	66.7	43.2	*
Congestive Heart Failure	11	18.2	15.9	*	18.2	24.9	*	27.3	32.2	*
Pneumonia/Influenza	22	18.2	16.9	*	36.4	22.8	*	45.5	27.6	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	4	25.0	26.3	*	25.0	33.3	*	25.0	38.3	*
Hip Fracture	1	0.0	5.9	*	0.0	12.3	*	0.0	17.2	*
Sepsis	6	66.7	26.7	*	66.7	35.8	*	66.7	42.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	5.5	*	0.0	11.8	*	0.0	16.7	*
Open Reduction of Hip Fracture	0									
Prostatectomy	6	0.0	0.6	*	0.0	1.6	*	0.0	2.9	*
Cholecystectomy	4	0.0	0.9	*	0.0	1.3	*	0.0	1.7	*
Hysterectomy	1	0.0	0.5	*	0.0	1.0	*	0.0	1.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	25
Occupancy Rate	20
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	4
Percent of Physicians Board Certified Specialists	25
Medical Residents/Interns	0
Registered Nurses	12
Licensed Practical Nurses	8

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

DECKERVILLE COMMUNITY HOSPITAL

Medicare Provider Number: 230154

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	129	17.8	11.2	4.5	23.3	16.7	4.7	29.5	21.3	5.7
CONDITIONS:										
Acute Myocardial Infarction	4	25.0	31.7	*	25.0	37.1	*	25.0	41.6	*
Congestive Heart Failure	14	28.6	13.3	*	35.7	20.6	*	35.7	26.9	*
Pneumonia/Influenza	20	40.0	15.6	*	40.0	21.1	*	45.0	25.6	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	2	0.0	2.1	*	0.0	4.4	*	0.0	6.8	*
Stroke	6	0.0	21.2	*	16.7	31.1	*	16.7	36.5	*
Hip Fracture	2	0.0	3.1	*	0.0	6.2	*	0.0	8.4	*
Sepsis	6	33.3	26.4	*	33.3	36.5	*	50.0	43.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	2.9	*	0.0	6.0	*	0.0	8.2	*
Open Reduction of Hip Fracture	0									
Prostatectomy	4	0.0	1.1	*	25.0	2.5	*	25.0	4.1	*
Cholecystectomy	1	0.0	1.2	*	0.0	2.2	*	0.0	2.9	*
Hysterectomy	0									

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	119	14.3	11.7	4.0	17.6	16.9	3.9	21.8	20.9	3.8
CONDITIONS:										
Acute Myocardial Infarction	4	25.0	35.6	*	50.0	38.4	*	50.0	41.8	*
Congestive Heart Failure	10	20.0	13.9	*	20.0	21.0	*	30.0	27.1	*
Pneumonia/Influenza	16	31.3	24.4	*	31.3	32.2	*	37.5	37.9	*
Chronic Obstructive Pulmonary Disease	1	0.0	1.9	*	0.0	4.6	*	0.0	7.0	*
Transient Cerebral Ischemia	5	0.0	2.0	*	20.0	4.7	*	20.0	7.7	*
Stroke	5	40.0	16.9	*	40.0	22.6	*	40.0	26.5	*
Hip Fracture	1	0.0	10.9	*	0.0	19.1	*	0.0	23.5	*
Sepsis	1	0.0	27.4	*	0.0	38.3	*	0.0	44.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	10.1	*	0.0	18.5	*	0.0	23.0	*
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	2	0.0	4.4	*	0.0	6.8	*	0.0	3.3	*
Hysterectomy	0									

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

DETROIT OSTEOPATHIC HOSPITAL

12523 3rd Ave
Highland Park, MI 48203

Medicare Provider Number: 230150

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	967	13.1	11.2	1.2	21.8	17.3	2.1	27.4	22.0	2.1
CONDITIONS:										
Acute Myocardial Infarction	13	38.5	32.1	*	46.2	35.8	*	46.2	39.2	*
Congestive Heart Failure	61	11.5	13.0	4.9	24.6	21.1	7.9	32.8	28.0	10.9
Pneumonia/Influenza	22	13.6	12.8	*	18.2	18.9	*	18.2	23.4	*
Chronic Obstructive Pulmonary Disease	10	10.0	9.1	*	20.0	17.0	*	20.0	23.3	*
Transient Cerebral Ischemia	6	0.0	1.5	*	0.0	3.3	*	0.0	5.4	*
Stroke	28	17.9	18.6	*	28.6	25.9	*	28.6	30.6	*
Hip Fracture	16	6.3	7.4	*	12.5	14.1	*	25.0	18.8	*
Sepsis	22	27.3	25.1	*	54.5	36.1	*	54.5	43.7	*
PROCEDURES:										
Angioplasty	12	8.3	3.3	*	8.3	5.1	*	8.3	6.7	*
Coronary Artery Bypass Graft	63	14.3	5.7	6.4	15.9	8.8	6.4	20.6	10.9	7.8
Initial Pacemaker Insertion	2	0.0	2.9	*	0.0	5.7	*	0.0	8.4	*
Carotid Endarterectomy	2	0.0	1.9	*	0.0	3.6	*	0.0	5.1	*
Hip Replacement/Reconstruction	15	0.0	4.6	*	13.3	8.9	*	20.0	12.2	*
Open Reduction of Hip Fracture	6	16.7	5.7	*	16.7	11.0	*	16.7	14.8	*
Prostatectomy	15	0.0	1.3	*	0.0	3.3	*	0.0	5.6	*
Cholecystectomy	10	0.0	4.0	*	30.0	7.3	*	40.0	9.1	*
Hysterectomy	3	0.0	1.3	*	0.0	3.1	*	0.0	4.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	188
Occupancy Rate	76
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	91
Percent of Physicians Board Certified Specialists	65
Medical Residents/Interns	47
Registered Nurses	119
Licensed Practical Nurses	41

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

DETROIT OSTEOPATHIC HOSPITAL

Medicare Provider Number: 230150

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	914	9.4	10.5	1.2	17.0	16.5	1.4	22.0	20.9	1.5
CONDITIONS:										
Acute Myocardial Infarction	9	11.1	32.3	*	11.1	35.7	*	11.1	39.4	*
Congestive Heart Failure	61	8.2	12.4	8.3	14.8	19.8	9.3	19.7	26.2	10.5
Pneumonia/Influenza	27	7.4	13.0	*	14.8	18.8	*	33.3	23.4	*
Chronic Obstructive Pulmonary Disease	11	18.2	7.3	*	18.2	12.3	*	18.2	16.6	*
Transient Cerebral Ischemia	8	0.0	2.0	*	0.0	4.6	*	12.5	7.5	*
Stroke	15	20.0	19.5	*	33.3	27.7	*	33.3	32.8	*
Hip Fracture	7	0.0	5.9	*	14.3	10.5	*	14.3	13.4	*
Sepsis	18	33.3	28.4	*	55.6	36.7	*	55.6	42.7	*
PROCEDURES:										
Angioplasty	18	5.6	4.6	*	5.6	6.6	*	5.6	8.2	*
Coronary Artery Bypass Graft	48	20.8	7.6	*	22.9	10.2	*	25.0	11.8	*
Initial Pacemaker Insertion	3	0.0	1.3	*	33.3	2.9	*	33.3	4.7	*
Carotid Endarterectomy	1	0.0	0.9	*	0.0	1.7	*	0.0	2.4	*
Hip Replacement/Reconstruction	5	0.0	2.1	*	0.0	4.1	*	0.0	5.5	*
Open Reduction of Hip Fracture	3	0.0	7.4	*	33.3	12.9	*	33.3	16.2	*
Prostatectomy	9	0.0	1.2	*	0.0	2.8	*	0.0	4.5	*
Cholecystectomy	11	9.1	4.3	*	9.1	8.8	*	9.1	11.9	*
Hysterectomy	6	0.0	0.6	*	0.0	1.3	*	0.0	2.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	890	9.4	10.4	1.3	15.7	16.3	1.3	20.3	20.7	1.5
CONDITIONS:										
Acute Myocardial Infarction	17	11.8	27.3	*	17.6	31.6	*	23.5	35.6	*
Congestive Heart Failure	37	8.1	13.6	*	10.8	21.4	*	21.6	28.2	*
Pneumonia/Influenza	17	23.5	17.5	*	23.5	24.1	*	35.3	28.8	*
Chronic Obstructive Pulmonary Disease	13	7.7	12.8	*	15.4	22.8	*	15.4	29.9	*
Transient Cerebral Ischemia	16	6.3	1.5	*	6.3	3.4	*	6.3	5.4	*
Stroke	25	32.0	16.7	*	36.0	23.5	*	40.0	27.9	*
Hip Fracture	6	0.0	4.0	*	16.7	7.4	*	33.3	10.0	*
Sepsis	13	38.5	27.0	*	53.8	35.4	*	61.5	41.8	*
PROCEDURES:										
Angioplasty	20	0.0	4.3	*	0.0	5.6	*	0.0	6.9	*
Coronary Artery Bypass Graft	26	3.8	6.4	*	3.8	9.0	*	3.8	10.3	*
Initial Pacemaker Insertion	7	0.0	3.3	*	0.0	6.7	*	0.0	9.9	*
Carotid Endarterectomy	1	0.0	1.1	*	0.0	2.0	*	0.0	2.8	*
Hip Replacement/Reconstruction	3	0.0	1.6	*	0.0	3.3	*	33.3	4.7	*
Open Reduction of Hip Fracture	4	0.0	3.8	*	25.0	7.2	*	25.0	9.7	*
Prostatectomy	24	4.2	1.4	*	4.2	3.5	*	4.2	6.0	*
Cholecystectomy	9	11.1	6.4	*	11.1	12.3	*	11.1	16.7	*
Hysterectomy	3	0.0	0.2	*	0.0	0.3	*	0.0	0.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

Detroit Osteopathic Hospital
AN AFFILIATE OF HORIZON HEALTH SYSTEMS

For 70 years.
A tradition of caring.

STATEMENT PREPARED BY

DETROIT OSTEOPATHIC HOSPITAL

REGARDING 1991 HCFA MORTALITY REPORT

MEDICARE PROVIDER NO. 230150

Detroit Osteopathic Hospital is a 300 bed, acute care inner city hospital. We offer several specialized medical and surgical programs, such as the artificial kidney program, radiation oncology services, psychiatric and substance abuse treatment, and a full range of cardiac medical and surgical services through the Detroit Heart Institute.

As a result of being one of the primary referral centers for osteopathic hospitals in the Detroit Metropolitan area, patients in the end-stage and most acute phases of illness are often tranferred here for the specialty services we offer. The statistics for these specialties, consequently tend to be on the high end in mortality reports.

In this year's report, the deaths from all causes at thirty (30) days are slightly higher than predicted but not deviating significantly at 1.9% from the national mortality rates of patients with characteristics similar to ours. The higher deviation at 90 and 180 days reflects medical care given and deaths in other hospital emergency rooms and out-patient settings. These patients died in emergency rooms of other nearby hospitals before being admitted, therefore these cases became D.O.H. statistics since D.O.H. was the last discharging hospital. This group adversely affected the mortality statistics this year, especially over the 90 day level. For example, an 88 year old nursing home resident was admitted for four days to correct dehydration and electrolyte imbalance. She returned to the nursing home and expired of her underlying heart disease 131 days after treatment here. Hospitals have no control over medical care after discharge.

There are only two other areas about which the hospital wishes to comment; areas where there were enough cases reviewed to permit HCFA to do a satisfactory statistical evaluation: congestive heart failure and coronary artery bypass graft.

12523 Third Avenue
Highland Park, Michigan 48203-3294
313-252-4000

The standard deviations for Congestive Heart Failure are statistically insignificant, representing only 1.5% difference between predicted and observed mortality at 30 days, and 3.5 and 4.8% respectively at 90 and 180 days. These statistics are consistent with the variability expected nationally, and would fall within an acceptable range if this year's model had included a range rather than a single predicted figure for death.

The mortality statistics associated with the coronary artery bypass graft procedure exceed the predicted figure but do not significantly exceed the predicted range for hospitals nation-wide with characteristics similar to D.O.H. Had there been a range this year, D.O.H. would have fallen within it.

In summary, D.O.H. is an inner city hospital serving largely the poor elderly and nursing home residential population, 57% of whom are Medicare beneficiaries. We also have a small but significant referral base of cardiac patients referred from the tri-county area. The hospital's acuity index has risen steadily since 1985 to its' present 1.6212 level. Eleven per cent of the deaths reported under all causes expired within twenty-four hours of admission, received from facilities where they had reached the very terminal stage of their illnesses. Many other cases had orders on their charts limiting life-support measures in the presence of irreversible end-stage illness.

Detroit Osteopathic Hospital has a quality assessment program which includes review of all care given to all patients who die during their hospital stay. This review is conducted by committees of physicians and nurses who represent all areas of specialty in the hospital. The information contained in the HCFA reports is used to supplement and enhance the mortality review function of these committees within the hospital.

The HCFA reports remain, according to the Federal Register, one of many possible tools for assessment of the quality of hospital care. The report's ability to accurately predict risk of death is not yet demonstrated.

MRD/js
01/14/91

DETROIT REC HOSPITAL & UNIV HLTH CENTER

4201 St Antoine
Detroit, MI 48201

Medicare Provider Number: 230273

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,230	12.5	11.3	1.0	17.9	16.0	1.4	22.8	19.7	1.6
CONDITIONS:										
Acute Myocardial Infarction	40	20.0	25.3	*	27.5	29.1	*	32.5	32.4	*
Congestive Heart Failure	76	10.5	13.5	4.9	23.7	20.9	5.2	28.9	27.1	5.6
Pneumonia/Influenza	36	19.4	16.6	*	22.2	22.3	*	25.0	26.9	*
Chronic Obstructive Pulmonary Disease	13	15.4	15.4	*	15.4	25.0	*	23.1	32.3	*
Transient Cerebral Ischemia	18	0.0	1.6	*	0.0	3.3	*	0.0	5.3	*
Stroke	81	21.0	21.5	4.7	25.9	27.3	5.2	32.1	31.3	5.2
Hip Fracture	40	0.0	6.5	*	5.0	11.4	*	7.5	14.6	*
Sepsis	4	75.0	15.4	*	75.0	20.7	*	75.0	25.6	*
PROCEDURES:										
Angioplasty	4	0.0	6.5	*	25.0	7.8	*	25.0	9.2	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	2.2	*	0.0	4.3	*	0.0	6.5	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	9	0.0	5.5	*	0.0	10.1	*	0.0	13.2	*
Open Reduction of Hip Fracture	23	0.0	6.5	*	8.7	11.9	*	13.0	15.3	*
Prostatectomy	6	0.0	1.9	*	16.7	4.5	*	16.7	7.2	*
Cholecystectomy	12	8.3	1.7	*	8.3	2.6	*	8.3	3.3	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	290
Occupancy Rate	84
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	163
Percent of Physicians Board Certified Specialists	77
Medical Residents/Interns	107
Registered Nurses	350
Licensed Practical Nurses	74

SPECIALTY SERVICES:

Burn Unit	Yes
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	Yes
Rehabilitation Unit	No
Trauma Center	Yes

**** Not used in calculating hospital mortality rates.**

DETROIT REC HOSPITAL & UNIV HLTH CENTER

Medicare Provider Number: 230273

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,309	14.2	11.8	1.4	19.7	17.1	1.6	23.9	21.0	1.7
CONDITIONS:										
Acute Myocardial Infarction	24	33.3	21.5	*	33.3	24.8	*	41.7	28.1	*
Congestive Heart Failure	97	15.5	16.1	3.8	24.7	24.4	4.6	29.9	31.2	5.0
Pneumonia/Influenza	43	18.6	13.6	*	23.3	18.6	*	25.6	22.6	*
Chronic Obstructive Pulmonary Disease	22	13.6	15.5	*	22.7	24.6	*	22.7	31.2	*
Transient Cerebral Ischemia	12	8.3	1.8	*	8.3	3.6	*	8.3	5.4	*
Stroke	69	20.3	23.6	6.3	27.5	30.1	6.2	33.3	34.4	6.1
Hip Fracture	32	15.6	7.7	*	18.8	13.3	*	18.8	16.7	*
Sepsis	9	66.7	25.8	*	66.7	32.2	*	77.8	37.1	*
PROCEDURES:										
Angioplasty	3	0.0	4.7	*	0.0	5.5	*	0.0	6.5	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	28.6	3.1	*	42.9	5.8	*	42.9	8.3	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	7	28.6	8.2	*	28.6	14.4	*	28.6	17.8	*
Open Reduction of Hip Fracture	18	5.6	6.2	*	5.6	11.1	*	5.6	14.2	*
Prostatectomy	10	10.0	2.0	*	10.0	5.1	*	10.0	8.9	*
Cholecystectomy	10	10.0	10.2	*	20.0	17.7	*	20.0	22.4	*
Hysterectomy	4	0.0	0.5	*	0.0	0.8	*	0.0	1.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,387	15.6	13.2	1.2	22.4	18.5	1.6	26.0	22.5	1.6
CONDITIONS:										
Acute Myocardial Infarction	46	26.1	27.1	*	37.0	30.7	*	43.5	34.1	*
Congestive Heart Failure	89	15.7	16.7	4.1	23.6	25.0	4.7	27.0	32.0	6.2
Pneumonia/Influenza	38	23.7	16.8	*	36.8	22.0	*	39.5	26.2	*
Chronic Obstructive Pulmonary Disease	28	7.1	16.8	*	32.1	26.6	*	39.3	33.0	*
Transient Cerebral Ischemia	15	0.0	1.8	*	0.0	3.9	*	6.7	6.2	*
Stroke	101	26.7	26.5	4.5	33.7	33.3	5.8	42.6	37.4	7.3
Hip Fracture	47	4.3	7.3	*	8.5	12.2	*	10.6	15.4	*
Sepsis	10	30.0	20.0	*	60.0	23.7	*	70.0	27.5	*
PROCEDURES:										
Angioplasty	3	33.3	6.2	*	33.3	7.1	*	33.3	8.2	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	5	0.0	4.0	*	20.0	8.9	*	40.0	14.3	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	17	0.0	6.5	*	0.0	11.0	*	5.9	13.9	*
Open Reduction of Hip Fracture	22	0.0	7.0	*	4.5	12.6	*	4.5	16.0	*
Prostatectomy	17	0.0	3.2	*	5.9	7.9	*	11.8	13.0	*
Cholecystectomy	7	14.3	5.8	*	14.3	9.4	*	14.3	11.1	*
Hysterectomy	2	0.0	0.8	*	0.0	2.2	*	0.0	3.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

315.1

DETROIT RECEIVING HOSPITAL AND
UNIVERSITY HEALTH CENTER
4201 ST. ANTOINE
DETROIT, MICHIGAN 48201

HOSPITAL MEDICARE I.D. #: 230273

January 15, 1991

HEALTH CARE FINANCING ADMINISTRATION
Health Standards and Quality Bureau
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

ATTENTION: Mrs. Sandra Kappert

To Whom It May Concern:

We appreciate the opportunity to review and respond to the 1987, 1988 and 1989 Medicare mortality data provided through HCFA's new methodology. It is useful to have predicted ranges for mortalities in addition to the point estimates.

Detroit Receiving Hospital and University Health Center is a 340-bed emergency/trauma hospital and a subsidiary of The Detroit Medical Center, located in mid-town Detroit. Over ninety-five percent of our patients are admitted via the Emergency Department. As a specialty hospital, approximately thirty percent of our beds are categorized for intensive care and intensive care step-down of various types. We have a Burn Center, a Spinal Cord Injury Unit, Coronary Care, Surgical Intensive Care, Medical Intensive Care, Pulmonary Special Care, and a Traumatic Brain Injury Unit, in addition to a full complement of medical and surgical acute care beds.

Detroit Receiving is, therefore, an institution which provides tertiary care for the most serious illnesses and injuries. The community's emergency medical transport system relies on our availability. Hospitals and nursing homes transfer to us patients whose conditions require care beyond the expertise of acute and long term care community facilities.

Given the severity of the illnesses of many of our older patients, it is understandable that for FY 1987, 1988 and 1989 certain HCFA point estimates of mortality are exceeded by our observed mortality rates. We note, however, that our observed

HOSPITAL MEDICARE I.D. #: 230273

January 15, 1991
Page 2

mortality rates for each of the three years lie within ranges predicted at the 99% confidence interval. For all except two observed mortality rates (FY 1987 "All Causes" - within 90 and 180 days of admission) our observed mortality rates fall within ranges predicted at the 95% confidence interval.

We will, as always, use these mortality data as an integral part of our on-going quality assurance program, and as a basis for understanding and advocating for the unique requirements of the older population we serve.

Sincerely,

Edward S. Thomas

Edward S. Thomas
President and Chief Executive Officer

/dh

DETROIT RIVERVIEW HOSPITAL

7733 E Jefferson
Detroit, MI 48214

Medicare Provider Number: 230119

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	869	6.6	8.6	1.2	10.8	13.3	1.5	14.5	17.1	1.6
CONDITIONS:										
Acute Myocardial Infarction	16	18.8	28.4	*	18.8	31.6	*	18.8	34.7	*
Congestive Heart Failure	71	12.7	14.4	4.5	21.1	22.4	5.3	23.9	29.1	9.0
Pneumonia/Influenza	23	4.3	17.1	*	17.4	23.9	*	21.7	29.0	*
Chronic Obstructive Pulmonary Disease	19	0.0	13.0	*	15.8	19.7	*	26.3	25.1	*
Transient Cerebral Ischemia	11	0.0	1.8	*	0.0	3.8	*	9.1	5.9	*
Stroke	30	20.0	16.2	*	23.3	23.2	*	26.7	27.6	*
Hip Fracture	7	0.0	6.3	*	14.3	10.6	*	14.3	13.4	*
Sepsis	14	28.6	27.0	*	42.9	33.8	*	42.9	40.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	1.8	*	0.0	3.7	*	0.0	5.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	0.0	5.7	*	20.0	9.8	*	20.0	12.4	*
Open Reduction of Hip Fracture	3	0.0	3.9	*	0.0	7.1	*	0.0	9.4	*
Prostatectomy	37	0.0	0.9	*	5.4	2.1	*	5.4	3.6	*
Cholecystectomy	12	8.3	2.6	*	8.3	4.5	*	8.3	5.8	*
Hysterectomy	1	0.0	0.3	*	0.0	0.5	*	0.0	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	637
Occupancy Rate	58
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	499
Percent of Physicians Board Certified Specialists	76
Medical Residents/Interns	0
Registered Nurses	371
Licensed Practical Nurses	152

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	Yes
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

DETROIT RIVERVIEW HOSPITAL

Medicare Provider Number: 230119

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	810	5.3	9.9	1.7	11.4	15.0	1.6	14.2	19.0	1.8
CONDITIONS:										
Acute Myocardial Infarction	15	6.7	30.2	*	6.7	34.5	*	6.7	38.2	*
Congestive Heart Failure	66	6.1	14.2	6.3	16.7	21.8	6.8	18.2	28.6	8.9
Pneumonia/Influenza	22	22.7	20.2	*	22.7	26.6	*	27.3	31.6	*
Chronic Obstructive Pulmonary Disease	14	0.0	13.1	*	0.0	21.3	*	0.0	27.4	*
Transient Cerebral Ischemia	12	0.0	1.8	*	0.0	4.0	*	0.0	6.1	*
Stroke	26	11.5	20.7	*	19.2	27.2	*	26.9	31.6	*
Hip Fracture	5	0.0	7.2	*	20.0	12.6	*	20.0	16.0	*
Sepsis	7	0.0	23.5	*	0.0	34.5	*	28.6	40.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	3.4	*	0.0	7.1	*	0.0	10.0	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	4.4	*	0.0	7.8	*	0.0	9.8	*
Open Reduction of Hip Fracture	2	0.0	6.5	*	50.0	11.8	*	50.0	15.1	*
Prostatectomy	35	0.0	1.9	*	2.9	4.4	*	2.9	6.8	*
Cholecystectomy	11	0.0	2.9	*	0.0	4.7	*	9.1	5.7	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	365	5.2	8.9	1.9	11.2	13.6	2.0	16.2	17.4	2.0
CONDITIONS:										
Acute Myocardial Infarction	13	30.8	30.3	*	53.8	35.0	*	53.8	38.5	*
Congestive Heart Failure	20	15.0	14.4	*	25.0	21.8	*	35.0	28.4	*
Pneumonia/Influenza	7	28.6	15.2	*	42.9	20.3	*	57.1	24.7	*
Chronic Obstructive Pulmonary Disease	4	0.0	8.9	*	0.0	13.7	*	0.0	17.7	*
Transient Cerebral Ischemia	5	0.0	1.8	*	0.0	3.6	*	0.0	5.5	*
Stroke	13	0.0	20.3	*	0.0	27.1	*	0.0	31.6	*
Hip Fracture	1	0.0	4.3	*	0.0	7.9	*	0.0	10.5	*
Sepsis	1	0.0	38.8	*	0.0	53.7	*	100.0	60.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	6.1	*	25.0	13.1	*	25.0	19.3	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	4.1	*	0.0	7.6	*	0.0	10.2	*
Open Reduction of Hip Fracture	0									
Prostatectomy	17	0.0	1.2	*	0.0	2.9	*	11.8	4.6	*
Cholecystectomy	3	0.0	1.8	*	0.0	2.8	*	0.0	3.5	*
Hysterectomy	1	0.0	0.1	*	0.0	0.3	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

DICKINSON COUNTY MEMORIAL HOSPITAL

400 Woodward Avenue
Iron Mountain, MI 49801

Medicare Provider Number: 230055

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,091	8.8	8.6	0.9	11.6	13.1	1.1	14.6	16.7	1.3
CONDITIONS:										
Acute Myocardial Infarction	34	35.3	27.6	*	38.2	31.4	*	41.2	35.1	*
Congestive Heart Failure	53	13.2	14.7	5.8	17.0	23.0	8.1	26.4	29.9	7.7
Pneumonia/Influenza	52	9.6	17.5	6.0	9.6	24.0	7.7	15.4	28.9	8.1
Chronic Obstructive Pulmonary Disease	12	0.0	11.8	*	0.0	18.9	*	0.0	25.1	*
Transient Cerebral Ischemia	17	0.0	1.7	*	5.9	3.8	*	5.9	6.0	*
Stroke	34	20.6	21.1	*	29.4	28.3	*	29.4	32.8	*
Hip Fracture	46	17.4	6.3	*	21.7	11.3	*	23.9	14.7	*
Sepsis	11	18.2	21.4	*	18.2	29.3	*	27.3	35.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	5	0.0	3.0	*	0.0	5.7	*	0.0	8.3	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	19	15.8	3.8	*	15.8	7.4	*	15.8	10.0	*
Open Reduction of Hip Fracture	36	19.4	5.0	*	25.0	9.7	*	27.8	13.0	*
Prostatectomy	40	0.0	1.4	*	0.0	2.7	*	0.0	4.2	*
Cholecystectomy	21	0.0	1.8	*	0.0	3.0	*	9.5	3.9	*
Hysterectomy	10	0.0	0.4	*	0.0	0.9	*	0.0	1.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1988

Total Beds	107
Occupancy Rate	49
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	40
Percent of Physicians Board Certified Specialists	75
Medical Residents/Interns	0
Registered Nurses	64
Licensed Practical Nurses	40

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

DICKINSON COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 230055

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,149	8.0	9.2	0.9	11.4	13.9	1.2	13.3	17.6	1.5
CONDITIONS:										
Acute Myocardial Infarction	40	30.0	28.3	*	32.5	32.1	*	32.5	36.0	*
Congestive Heart Failure	58	10.3	15.4	6.1	17.2	23.4	8.3	20.7	30.0	11.3
Pneumonia/Influenza	52	11.5	17.9	6.5	11.5	24.3	8.1	13.5	28.8	9.4
Chronic Obstructive Pulmonary Disease	16	0.0	6.7	*	0.0	11.8	*	0.0	16.0	*
Transient Cerebral Ischemia	10	0.0	1.7	*	0.0	3.8	*	0.0	6.1	*
Stroke	41	29.3	20.7	*	31.7	27.7	*	31.7	32.3	*
Hip Fracture	43	9.3	8.3	*	11.6	14.7	*	14.0	18.7	*
Sepsis	12	25.0	24.0	*	25.0	30.4	*	33.3	36.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	3.5	*	0.0	8.4	*	0.0	13.9	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	13	0.0	3.9	*	0.0	7.6	*	0.0	10.0	*
Open Reduction of Hip Fracture	25	12.0	7.6	*	12.0	13.8	*	12.0	17.6	*
Prostatectomy	41	0.0	1.1	*	0.0	2.6	*	0.0	4.1	*
Cholecystectomy	24	0.0	2.4	*	8.3	4.6	*	8.3	6.1	*
Hysterectomy	12	0.0	0.7	*	0.0	1.4	*	0.0	2.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,060	6.8	9.0	1.1	10.6	13.5	1.5	13.3	17.2	1.6
CONDITIONS:										
Acute Myocardial Infarction	44	25.0	24.2	*	25.0	27.4	*	25.0	30.8	*
Congestive Heart Failure	58	13.8	16.7	8.9	19.0	24.9	9.7	19.0	31.8	12.3
Pneumonia/Influenza	49	10.2	18.7	*	20.4	25.3	*	22.4	30.3	*
Chronic Obstructive Pulmonary Disease	22	0.0	6.9	*	9.1	11.5	*	9.1	15.7	*
Transient Cerebral Ischemia	22	0.0	1.8	*	0.0	3.9	*	0.0	6.2	*
Stroke	35	22.9	20.2	*	25.7	26.7	*	25.7	31.3	*
Hip Fracture	31	0.0	5.8	*	0.0	10.8	*	0.0	14.3	*
Sepsis	9	22.2	33.2	*	33.3	42.0	*	44.4	47.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	0.0	2.5	*	0.0	5.1	*	0.0	8.0	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	9	0.0	4.0	*	0.0	7.6	*	0.0	10.0	*
Open Reduction of Hip Fracture	21	0.0	4.8	*	0.0	9.3	*	0.0	12.4	*
Prostatectomy	27	0.0	0.9	*	0.0	2.3	*	0.0	3.8	*
Cholecystectomy	18	0.0	4.0	*	0.0	7.9	*	0.0	10.8	*
Hysterectomy	8	0.0	0.7	*	0.0	1.2	*	0.0	1.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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"Where Professionalism Meets Personal Care"

DCH

Dickinson County Memorial Hospital System

400 WOODWARD AVENUE • IRON MOUNTAIN, MI 49801 • TELEPHONE (906) 774-1313

Medicare Provider No. 230055

January 14, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

RE: Comments For Inclusion in the Medicare Hospital Mortality Information Publication.

Evaluation of the mortality rate of patients treated at Dickinson County Hospitals for hip fracture, hip replacement or open reduction of hip fracture reveals the average age was 86 -- and all had other predisposing disease factors.

John Schon, Administrator

Memorial Hospital
Iron Mountain, MI

John J. Schon
Administrator-CEO

Anderson Memorial
Norway, MI

DOCTORS HOSPITAL

2730 E Jefferson Ave
Detroit, MI 48207

Medicare Provider Number: 230090

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	228	21.1	14.1	3.1	28.9	20.7	3.7	35.5	25.4	4.0
CONDITIONS:										
Acute Myocardial Infarction	2	100.0	48.8	*	100.0	61.6	*	100.0	68.2	*
Congestive Heart Failure	15	20.0	13.0	*	26.7	20.4	*	33.3	26.7	*
Pneumonia/Influenza	14	21.4	17.2	*	21.4	23.7	*	28.6	28.8	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	2	0.0	5.4	*	0.0	12.9	*	50.0	20.5	*
Stroke	10	10.0	19.5	*	30.0	27.9	*	40.0	33.2	*
Hip Fracture	5	20.0	5.7	*	20.0	9.9	*	20.0	12.7	*
Sepsis	16	62.5	25.1	*	75.0	33.3	*	81.3	39.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	7.8	*	0.0	13.4	*	0.0	16.7	*
Open Reduction of Hip Fracture	4	25.0	4.4	*	25.0	8.2	*	25.0	10.9	*
Prostatectomy	3	0.0	1.5	*	0.0	3.8	*	33.3	6.3	*
Cholecystectomy	1	0.0	0.9	*	0.0	1.5	*	0.0	2.0	*
Hysterectomy	2	0.0	0.5	*	0.0	1.1	*	0.0	1.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1988

Total Beds	101
Occupancy Rate	47
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	93
Percent of Physicians Board Certified Specialists	27
Medical Residents/Interns	6
Registered Nurses	31
Licensed Practical Nurses	8

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

DOCTORS HOSPITAL

Medicare Provider Number: 230090

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	352	23.9	15.9	2.5	42.3	24.2	3.9	47.2	30.0	3.0
CONDITIONS:										
Acute Myocardial Infarction	7	42.9	34.0	*	57.1	39.6	*	57.1	43.3	*
Congestive Heart Failure	22	13.6	16.6	*	13.6	25.5	*	22.7	32.7	*
Pneumonia/Influenza	17	23.5	20.7	*	64.7	27.8	*	64.7	32.8	*
Chronic Obstructive Pulmonary Disease	13	15.4	9.9	*	38.5	16.4	*	38.5	22.3	*
Transient Cerebral Ischemia	5	0.0	1.1	*	0.0	2.5	*	0.0	3.9	*
Stroke	9	55.6	18.4	*	55.6	27.0	*	55.6	32.5	*
Hip Fracture	8	0.0	6.0	*	25.0	10.5	*	25.0	13.4	*
Sepsis	28	39.3	22.9	*	67.9	30.9	*	67.9	37.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	4.4	*	0.0	8.1	*	0.0	10.5	*
Open Reduction of Hip Fracture	4	0.0	7.0	*	50.0	12.6	*	50.0	16.1	*
Prostatectomy	2	0.0	1.7	*	0.0	4.4	*	0.0	7.1	*
Cholecystectomy	1	0.0	2.0	*	0.0	3.8	*	0.0	4.8	*
Hysterectomy	3	0.0	0.4	*	0.0	0.7	*	0.0	0.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	340	23.2	15.9	2.6	36.5	24.1	4.1	45.9	30.3	4.2
CONDITIONS:										
Acute Myocardial Infarction	5	20.0	48.9	*	20.0	53.7	*	20.0	58.6	*
Congestive Heart Failure	24	33.3	24.7	*	45.8	35.2	*	50.0	42.6	*
Pneumonia/Influenza	18	27.8	21.3	*	55.6	28.6	*	66.7	34.2	*
Chronic Obstructive Pulmonary Disease	15	26.7	15.6	*	46.7	24.8	*	53.3	31.3	*
Transient Cerebral Ischemia	7	28.6	2.6	*	42.9	6.2	*	42.9	9.9	*
Stroke	10	40.0	20.1	*	40.0	27.5	*	40.0	32.2	*
Hip Fracture	12	33.3	7.8	*	41.7	14.0	*	58.3	18.2	*
Sepsis	23	39.1	31.8	*	60.9	40.1	*	73.9	47.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	8.0	*	0.0	17.4	*	50.0	24.8	*
Open Reduction of Hip Fracture	9	44.4	7.0	*	44.4	12.8	*	55.6	16.4	*
Prostatectomy	2	0.0	0.8	*	0.0	1.7	*	0.0	2.7	*
Cholecystectomy	2	0.0	1.1	*	0.0	1.8	*	0.0	2.4	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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#230090

321.2

Doctors Hospital

2730 East Jefferson Avenue • Detroit, Michigan 48207

Telephone (313) 259-3050

COMMENTS ON HCFA'S "1990 MEDICARE MORTALITY DATA RELEASE"

Medicare Provider Number: 230090

Until April 1989 (and as in previously reported years), the patient population at Doctors Hospital predominately consisted of just two groups: 1) a substance abuse population who are not considered in this report, and 2) an elderly patient population, referred by inner-city nursing homes. Because of the severity of illness of this elderly population, Doctors Hospital's mortality rates have been consistently skewed to reflect a rate which appears high at face value; however, these rates may not be excessive when the following factors are considered:

- The median age of the patients in this data is 81.
- These nursing home patients are already so ill that they require around-the-clock nursing home care and their illnesses are often complicated by their life-long, frequently impoverished inner-city lifestyle.

Doctors Hospital participates in and consistently successfully passes onsite review of patient care records and quality assurance standards by the following outside agencies: Michigan Peer Review Organization, Joint Commission on Accreditation of Healthcare Organizations and the Michigan Department of Public Health.

DOCTORS HOSPITAL OF JACKSON

110 N Elm Avenue
Jackson, MI 49202

Medicare Provider Number: 230184

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	371	6.5	6.7	1.3	10.0	10.4	1.6	12.7	13.6	2.0
CONDITIONS:										
Acute Myocardial Infarction	12	16.7	15.0	*	25.0	17.8	*	25.0	20.8	*
Congestive Heart Failure	10	20.0	14.9	*	40.0	21.0	*	50.0	26.8	*
Pneumonia/Influenza	14	7.1	13.3	*	7.1	18.9	*	14.3	23.5	*
Chronic Obstructive Pulmonary Disease	11	0.0	4.3	*	27.3	9.2	*	36.4	14.0	*
Transient Cerebral Ischemia	3	0.0	2.6	*	0.0	6.3	*	0.0	10.4	*
Stroke	12	33.3	13.2	*	33.3	18.5	*	33.3	22.4	*
Hip Fracture	4	0.0	7.4	*	0.0	13.6	*	25.0	17.7	*
Sepsis	1	0.0	22.9	*	0.0	27.6	*	0.0	33.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	9.0	*	0.0	12.2	*	0.0	14.2	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	3.0	*	0.0	5.5	*	0.0	7.1	*
Open Reduction of Hip Fracture	1	0.0	9.7	*	0.0	18.2	*	0.0	23.4	*
Prostatectomy	41	4.9	0.8	*	4.9	2.1	*	4.9	3.6	*
Cholecystectomy	11	9.1	1.1	*	9.1	1.8	*	9.1	2.3	*
Hysterectomy	2	0.0	0.2	*	0.0	0.3	*	0.0	0.4	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	75
Occupancy Rate	23
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	41
Percent of Physicians Board Certified Specialists	44
Medical Residents/Interns	0
Registered Nurses	31
Licensed Practical Nurses	26

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

DOCTORS HOSPITAL OF JACKSON

Medicare Provider Number: 230184

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	377	4.5	6.3	2.0	8.2	9.9	2.7	10.6	13.0	3.0
CONDITIONS:										
Acute Myocardial Infarction	7	28.6	24.1	*	42.9	27.7	*	42.9	31.6	*
Congestive Heart Failure	16	18.8	13.5	*	18.8	20.9	*	25.0	27.3	*
Pneumonia/Influenza	10	10.0	12.9	*	10.0	18.5	*	10.0	22.9	*
Chronic Obstructive Pulmonary Disease	12	0.0	4.5	*	8.3	9.6	*	25.0	14.3	*
Transient Cerebral Ischemia	5	0.0	1.4	*	0.0	3.4	*	0.0	5.5	*
Stroke	3	0.0	21.4	*	0.0	28.0	*	0.0	32.8	*
Hip Fracture	0									
Sepsis	1	0.0	30.1	*	0.0	36.7	*	0.0	43.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	5	0.0	1.4	*	0.0	2.8	*	0.0	4.3	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	33	0.0	0.7	*	0.0	1.9	*	0.0	3.4	*
Cholecystectomy	10	0.0	0.6	*	0.0	1.1	*	0.0	1.5	*
Hysterectomy	7	0.0	0.4	*	0.0	0.9	*	0.0	1.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	387	6.5	7.4	1.8	9.3	11.6	2.8	12.1	14.9	3.4
CONDITIONS:										
Acute Myocardial Infarction	6	50.0	26.3	*	50.0	29.0	*	50.0	32.2	*
Congestive Heart Failure	26	7.7	14.1	*	15.4	21.8	*	26.9	28.1	*
Pneumonia/Influenza	10	20.0	15.3	*	30.0	21.6	*	30.0	26.7	*
Chronic Obstructive Pulmonary Disease	16	6.3	11.5	*	6.3	18.3	*	6.3	23.3	*
Transient Cerebral Ischemia	5	0.0	2.2	*	0.0	4.9	*	0.0	7.8	*
Stroke	8	12.5	14.6	*	12.5	21.0	*	12.5	25.7	*
Hip Fracture	0									
Sepsis	6	0.0	23.1	*	16.7	30.1	*	16.7	35.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	2.0	*	0.0	4.0	*	0.0	5.8	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	43	0.0	0.6	*	0.0	1.7	*	0.0	3.1	*
Cholecystectomy	11	9.1	2.0	*	9.1	3.2	*	9.1	4.0	*
Hysterectomy	5	20.0	3.5	*	20.0	6.4	*	20.0	7.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

EATON RAPIDS COMMUNITY HOSPITAL

1500 South Main Street
Eaton Rapids, MI 48827

Medicare Provider Number: 230153

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	234	8.1	9.0	2.4	11.1	13.5	3.3	12.4	17.2	4.5
CONDITIONS:										
Acute Myocardial Infarction	10	30.0	29.2	*	30.0	32.0	*	30.0	35.4	*
Congestive Heart Failure	16	18.8	16.1	*	18.8	24.9	*	25.0	32.2	*
Pneumonia/Influenza	13	15.4	15.3	*	15.4	21.0	*	15.4	25.1	*
Chronic Obstructive Pulmonary Disease	3	0.0	8.4	*	0.0	17.4	*	0.0	26.7	*
Transient Cerebral Ischemia	3	0.0	2.5	*	0.0	5.7	*	0.0	9.0	*
Stroke	9	11.1	20.3	*	11.1	26.6	*	11.1	30.9	*
Hip Fracture	3	0.0	5.8	*	0.0	9.9	*	33.3	12.6	*
Sepsis	1	0.0	10.1	*	0.0	13.3	*	0.0	16.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	3.6	*	0.0	7.1	*	50.0	9.7	*
Open Reduction of Hip Fracture	1	0.0	8.6	*	0.0	14.1	*	0.0	17.0	*
Prostatectomy	12	0.0	1.2	*	0.0	3.1	*	0.0	5.3	*
Cholecystectomy	5	0.0	2.1	*	0.0	3.8	*	0.0	5.0	*
Hysterectomy	3	0.0	0.8	*	0.0	1.9	*	0.0	3.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	35
Occupancy Rate	29
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	80
Percent of Physicians Board Certified Specialists	61
Medical Residents/Interns	0
Registered Nurses	0
Licensed Practical Nurses	27

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

EATON RAPIDS COMMUNITY HOSPITAL

Medicare Provider Number: 230153

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	290	7.9	10.9	2.3	12.4	16.1	3.0	16.2	20.0	3.5
CONDITIONS:										
Acute Myocardial Infarction	15	26.7	33.4	*	26.7	36.9	*	33.3	40.7	*
Congestive Heart Failure	28	21.4	17.3	*	25.0	26.1	*	32.1	33.0	*
Pneumonia/Influenza	23	4.3	15.9	*	8.7	21.8	*	13.0	26.3	*
Chronic Obstructive Pulmonary Disease	2	0.0	11.9	*	0.0	22.5	*	0.0	31.2	*
Transient Cerebral Ischemia	2	0.0	2.0	*	0.0	4.3	*	0.0	6.7	*
Stroke	10	0.0	17.0	*	10.0	24.0	*	10.0	28.5	*
Hip Fracture	8	0.0	5.9	*	0.0	10.8	*	12.5	14.0	*
Sepsis	4	0.0	45.3	*	0.0	53.3	*	0.0	58.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	0.0	6.7	*	33.3	12.4	*	33.3	16.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	5.6	*	0.0	11.1	*	0.0	14.5	*
Open Reduction of Hip Fracture	4	0.0	5.0	*	0.0	9.4	*	25.0	12.2	*
Prostatectomy	8	0.0	1.1	*	0.0	2.7	*	0.0	4.7	*
Cholecystectomy	9	0.0	3.1	*	0.0	5.3	*	0.0	6.7	*
Hysterectomy	2	0.0	0.8	*	0.0	1.8	*	0.0	2.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	233	8.6	9.7	2.2	13.3	14.5	2.5	16.7	18.4	2.9
CONDITIONS:										
Acute Myocardial Infarction	9	55.6	37.5	*	55.6	41.1	*	55.6	45.0	*
Congestive Heart Failure	13	30.8	17.6	*	30.8	26.6	*	38.5	33.9	*
Pneumonia/Influenza	17	0.0	13.7	*	11.8	18.3	*	11.8	22.2	*
Chronic Obstructive Pulmonary Disease	2	0.0	6.4	*	0.0	11.1	*	0.0	14.9	*
Transient Cerebral Ischemia	3	0.0	4.2	*	33.3	9.1	*	33.3	14.7	*
Stroke	5	20.0	17.4	*	40.0	22.7	*	40.0	26.5	*
Hip Fracture	7	0.0	8.8	*	0.0	15.3	*	14.3	19.3	*
Sepsis	2	0.0	23.1	*	0.0	27.9	*	50.0	32.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	33.3	4.6	*	66.7	8.8	*	66.7	12.8	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	4.4	*	0.0	9.0	*	0.0	12.4	*
Open Reduction of Hip Fracture	5	0.0	9.0	*	0.0	16.2	*	20.0	20.5	*
Prostatectomy	10	0.0	2.0	*	10.0	5.0	*	10.0	8.3	*
Cholecystectomy	7	0.0	1.6	*	0.0	2.7	*	0.0	3.5	*
Hysterectomy	1	0.0	0.3	*	0.0	0.6	*	0.0	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

EDWARD W SPARROW HOSPITAL

1215 E Michigan Avenue
Lansing, MI 48912

Medicare Provider Number: 230230

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,077	9.7	9.5	0.7	15.3	14.7	1.0	18.4	18.7	0.9
CONDITIONS:										
Acute Myocardial Infarction	45	28.9	29.8	*	37.8	33.1	*	37.8	36.6	*
Congestive Heart Failure	87	19.5	15.5	4.7	29.9	24.0	6.9	34.5	31.1	5.8
Pneumonia/Influenza	77	14.3	13.8	4.0	18.2	19.0	4.8	23.4	23.1	4.9
Chronic Obstructive Pulmonary Disease	21	0.0	9.4	*	9.5	14.9	*	14.3	19.6	*
Transient Cerebral Ischemia	20	0.0	1.9	*	0.0	4.2	*	0.0	6.7	*
Stroke	72	29.2	21.9	8.7	36.1	29.1	11.3	40.3	33.7	10.7
Hip Fracture	60	8.3	7.0	3.5	10.0	12.7	5.2	13.3	16.6	6.6
Sepsis	36	13.9	26.9	*	30.6	35.8	*	33.3	42.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	17	0.0	4.4	*	0.0	7.9	*	5.9	11.2	*
Carotid Endarterectomy	29	0.0	1.2	*	0.0	2.3	*	0.0	3.5	*
Hip Replacement/Reconstruction	39	2.6	4.1	*	5.1	8.3	*	10.3	11.8	*
Open Reduction of Hip Fracture	30	13.3	6.5	*	13.3	12.3	*	16.7	16.1	*
Prostatectomy	70	0.0	1.6	2.0	0.0	3.4	3.2	1.4	5.2	3.4
Cholecystectomy	24	0.0	2.5	*	4.2	4.8	*	4.2	6.5	*
Hysterectomy	38	0.0	0.3	*	0.0	0.7	*	0.0	1.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	475
Occupancy Rate	64
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	243
Percent of Physicians Board Certified Specialists	97
Medical Residents/Interns	57
Registered Nurses	629
Licensed Practical Nurses	78

SPECIALTY SERVICES:

Burn Unit	Yes
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	Yes
Rehabilitation Unit	Yes
Trauma Center	Yes

**** Not used in calculating hospital mortality rates.**

EDWARD W SPARROW HOSPITAL

Medicare Provider Number: 230230

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,080	9.7	9.2	0.9	15.2	14.4	1.1	19.2	18.4	1.2
CONDITIONS:										
Acute Myocardial Infarction	52	40.4	26.8	11.1	42.3	30.0	10.9	46.2	33.5	10.5
Congestive Heart Failure	72	15.3	17.2	5.2	26.4	25.8	6.6	33.3	32.9	5.9
Pneumonia/Influenza	64	18.8	16.6	4.9	25.0	23.0	5.6	31.3	27.9	6.3
Chronic Obstructive Pulmonary Disease	29	3.4	8.9	*	13.8	15.4	*	24.1	21.3	*
Transient Cerebral Ischemia	19	5.3	1.9	*	10.5	4.2	*	10.5	6.7	*
Stroke	77	24.7	21.1	5.5	29.9	28.2	6.0	37.7	32.9	7.6
Hip Fracture	54	9.3	7.1	4.5	16.7	13.1	5.9	18.5	17.1	5.4
Sepsis	23	13.0	26.8	*	17.4	36.1	*	30.4	42.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	12	0.0	5.9	*	16.7	11.4	*	16.7	16.3	*
Carotid Endarterectomy	31	0.0	1.2	*	0.0	2.1	*	3.2	3.1	*
Hip Replacement/Reconstruction	29	0.0	2.5	*	6.9	4.9	*	6.9	6.6	*
Open Reduction of Hip Fracture	32	9.4	6.6	*	12.5	12.8	*	15.6	17.0	*
Prostatectomy	71	2.8	0.8	2.3	4.2	1.9	3.7	5.6	3.2	4.7
Cholecystectomy	28	7.1	3.0	*	14.3	6.0	*	14.3	8.5	*
Hysterectomy	43	0.0	0.3	*	0.0	0.7	*	2.3	1.1	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,068	9.5	8.9	0.8	16.4	13.8	1.2	20.8	17.8	1.3
CONDITIONS:										
Acute Myocardial Infarction	54	27.8	28.3	6.9	31.5	32.0	7.3	31.5	35.8	9.2
Congestive Heart Failure	65	18.5	16.8	5.7	29.2	25.2	6.3	35.4	32.2	7.0
Pneumonia/Influenza	62	22.6	16.3	7.8	25.8	22.3	8.4	33.9	27.2	9.2
Chronic Obstructive Pulmonary Disease	21	19.0	7.3	*	28.6	12.6	*	33.3	17.1	*
Transient Cerebral Ischemia	31	0.0	1.9	*	3.2	4.3	*	3.2	6.8	*
Stroke	90	17.8	23.0	7.0	27.8	30.6	6.8	35.6	35.3	5.1
Hip Fracture	67	4.5	6.1	3.1	11.9	11.5	3.9	19.4	15.3	5.6
Sepsis	25	28.0	26.8	*	36.0	33.2	*	36.0	39.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	19	0.0	2.5	*	10.5	5.5	*	15.8	8.6	*
Carotid Endarterectomy	19	0.0	1.3	*	0.0	2.3	*	0.0	3.3	*
Hip Replacement/Reconstruction	36	5.6	3.0	*	11.1	6.1	*	16.7	8.5	*
Open Reduction of Hip Fracture	35	2.9	5.3	*	5.7	10.3	*	11.4	13.9	*
Prostatectomy	96	0.0	0.8	1.2	2.1	1.9	1.4	2.1	3.2	2.1
Cholecystectomy	33	0.0	1.7	*	3.0	3.3	*	6.1	4.6	*
Hysterectomy	38	2.6	0.6	*	2.6	1.3	*	5.3	2.0	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

EMMA L BIXBY MEDICAL CENTER

818 Riverside Ave
Adrian, MI 49221

Medicare Provider Number: 230005

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,101	11.3	9.0	1.4	15.5	13.5	1.4	19.1	17.0	1.5
CONDITIONS:										
Acute Myocardial Infarction	45	31.1	27.3	*	35.6	30.4	*	37.8	33.9	*
Congestive Heart Failure	49	22.4	16.8	*	30.6	26.1	*	38.8	33.4	*
Pneumonia/Influenza	64	29.7	15.1	7.5	34.4	20.8	7.5	35.9	25.2	7.0
Chronic Obstructive Pulmonary Disease	10	0.0	5.8	*	0.0	10.6	*	10.0	14.9	*
Transient Cerebral Ischemia	6	0.0	2.4	*	0.0	5.5	*	16.7	8.9	*
Stroke	50	20.0	20.2	*	32.0	27.0	*	36.0	31.5	*
Hip Fracture	46	13.0	6.3	*	17.4	11.7	*	17.4	15.3	*
Sepsis	12	16.7	27.1	*	33.3	34.3	*	58.3	40.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	2	0.0	1.6	*	0.0	2.8	*	0.0	4.2	*
Hip Replacement/Reconstruction	30	10.0	2.7	*	13.3	5.2	*	13.3	7.0	*
Open Reduction of Hip Fracture	18	11.1	7.4	*	11.1	13.9	*	11.1	18.1	*
Prostatectomy	62	1.6	0.6	1.2	1.6	1.5	3.1	6.5	2.6	3.5
Cholecystectomy	40	0.0	1.8	*	2.5	3.1	*	5.0	3.9	*
Hysterectomy	19	0.0	0.4	*	0.0	0.9	*	0.0	1.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	195
Occupancy Rate	47
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	61
Percent of Physicians Board Certified Specialists	56
Medical Residents/Interns	0
Registered Nurses	128
Licensed Practical Nurses	63

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

EMMA L BIXBY MEDICAL CENTER

Medicare Provider Number: 230005

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,106	12.9	10.8	1.2	17.5	15.7	1.3	21.6	19.5	1.5
CONDITIONS:										
Acute Myocardial Infarction	62	38.7	29.6	11.6	43.5	32.5	11.2	43.5	36.0	11.4
Congestive Heart Failure	56	25.0	16.4	5.7	30.4	24.7	6.2	42.9	31.4	7.6
Pneumonia/Influenza	43	16.3	14.2	*	18.6	19.8	*	20.9	24.0	*
Chronic Obstructive Pulmonary Disease	20	0.0	8.7	*	10.0	14.1	*	15.0	18.9	*
Transient Cerebral Ischemia	8	0.0	1.6	*	0.0	3.5	*	0.0	5.4	*
Stroke	45	22.2	20.8	*	33.3	27.9	*	37.8	32.6	*
Hip Fracture	55	9.1	6.0	5.7	18.2	11.3	7.4	21.8	14.8	10.2
Sepsis	19	21.1	33.8	*	31.6	41.5	*	36.8	47.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	4	0.0	1.7	*	0.0	3.8	*	0.0	5.8	*
Hip Replacement/Reconstruction	34	14.7	4.2	*	20.6	8.5	*	20.6	11.6	*
Open Reduction of Hip Fracture	14	0.0	5.1	*	7.1	9.6	*	14.3	12.5	*
Prostatectomy	55	0.0	0.9	1.7	0.0	2.1	3.7	3.6	3.6	3.5
Cholecystectomy	24	0.0	1.3	*	0.0	2.6	*	0.0	3.5	*
Hysterectomy	17	0.0	0.3	*	0.0	0.6	*	0.0	1.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,031	13.5	10.7	1.3	17.9	15.6	1.4	21.2	19.3	1.8
CONDITIONS:										
Acute Myocardial Infarction	49	24.5	30.5	*	24.5	33.4	*	28.6	36.8	*
Congestive Heart Failure	52	26.9	17.9	11.1	34.6	26.8	12.0	40.4	34.0	11.1
Pneumonia/Influenza	53	15.1	15.1	4.9	18.9	20.6	5.6	26.4	25.0	6.0
Chronic Obstructive Pulmonary Disease	14	14.3	9.4	*	21.4	16.1	*	21.4	22.0	*
Transient Cerebral Ischemia	15	6.7	2.2	*	6.7	4.8	*	13.3	7.6	*
Stroke	50	30.0	23.5	*	38.0	30.7	*	46.0	35.4	*
Hip Fracture	35	5.7	5.7	*	5.7	10.6	*	8.6	13.8	*
Sepsis	6	33.3	20.0	*	33.3	26.0	*	33.3	30.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	1	0.0	0.8	*	0.0	1.5	*	0.0	2.0	*
Hip Replacement/Reconstruction	19	5.3	3.8	*	5.3	7.4	*	10.5	9.9	*
Open Reduction of Hip Fracture	16	6.3	4.7	*	6.3	9.3	*	6.3	12.6	*
Prostatectomy	55	1.8	0.8	1.5	1.8	2.0	2.5	3.6	3.5	3.4
Cholecystectomy	18	0.0	2.9	*	16.7	5.3	*	16.7	7.4	*
Hysterectomy	11	0.0	0.2	*	0.0	0.3	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FERGUSON HOSPITAL

72 Sheldon Blvd S E
Grand Rapids, MI 49502

Medicare Provider Number: 230237

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	523	2.1	3.3	1.1	4.8	5.6	1.4	9.4	7.6	1.4
CONDITIONS:										
Acute Myocardial Infarction	1	0.0	70.3	*	0.0	78.6	*	0.0	85.2	*
Congestive Heart Failure	1	0.0	8.6	*	0.0	13.8	*	0.0	18.9	*
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	78	0.0	0.5	1.1	0.0	1.3	2.2	2.6	2.2	2.2
Cholecystectomy	8	0.0	1.8	*	0.0	4.0	*	0.0	6.1	*
Hysterectomy	1	0.0	1.8	*	0.0	4.2	*	100.0	6.9	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	63
Occupancy Rate	51
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	32
Percent of Physicians Board Certified Specialists	100
Medical Residents/Interns	6
Registered Nurses	58
Licensed Practical Nurses	19

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

FERGUSON HOSPITAL

Medicare Provider Number: 230237

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	568	3.0	3.4	0.9	5.6	6.0	1.5	10.6	8.3	1.5
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	1	0.0	13.5	*	0.0	17.7	*	0.0	21.5	*
Chronic Obstructive Pulmonary Disease	1	0.0	4.4	*	0.0	7.0	*	0.0	10.7	*
Transient Cerebral Ischemia	1	0.0	1.2	*	0.0	2.7	*	0.0	4.2	*
Stroke	1	0.0	18.5	*	0.0	24.3	*	0.0	28.9	*
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	74	0.0	0.5	1.2	0.0	1.2	2.7	4.1	2.0	2.8
Cholecystectomy	8	0.0	2.9	*	0.0	5.6	*	0.0	7.4	*
Hysterectomy	3	0.0	3.1	*	0.0	6.3	*	0.0	8.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	497	3.6	3.8	1.2	7.8	6.7	1.6	10.5	9.2	1.9
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	1	0.0	18.1	*	0.0	25.6	*	0.0	31.0	*
Hip Fracture	0									
Sepsis	2	0.0	25.1	*	0.0	36.2	*	0.0	45.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	47	0.0	0.5	*	0.0	1.1	*	0.0	1.8	*
Cholecystectomy	6	0.0	7.1	*	0.0	14.1	*	16.7	19.4	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FLINT OSTEOPATHIC HOSPITAL

3921 Beecher Rd
Flint, MI 48502

Medicare Provider Number: 230197

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,141	9.4	10.6	1.0	14.7	15.9	1.2	18.8	19.9	1.2
CONDITIONS:										
Acute Myocardial Infarction	71	22.5	24.0	6.3	28.2	27.7	5.6	32.4	31.1	5.7
Congestive Heart Failure	103	19.4	16.3	4.6	26.2	25.5	4.8	36.9	32.8	5.8
Pneumonia/Influenza	90	5.6	16.4	5.7	12.2	22.4	5.9	15.6	26.9	6.7
Chronic Obstructive Pulmonary Disease	34	5.9	7.9	*	11.8	12.8	*	17.6	16.9	*
Transient Cerebral Ischemia	51	2.0	2.1	2.5	5.9	4.7	4.2	9.8	7.5	5.4
Stroke	77	16.9	18.7	4.8	24.7	26.2	5.2	31.2	30.7	5.4
Hip Fracture	29	6.9	7.1	*	13.8	12.5	*	17.2	15.9	*
Sepsis	29	31.0	31.0	*	48.3	38.9	*	48.3	45.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	18	0.0	3.4	*	5.6	6.2	*	5.6	8.6	*
Carotid Endarterectomy	9	11.1	1.1	*	11.1	1.9	*	11.1	2.7	*
Hip Replacement/Reconstruction	26	0.0	1.7	*	0.0	3.2	*	7.7	4.4	*
Open Reduction of Hip Fracture	17	5.9	7.2	*	17.6	13.2	*	17.6	17.1	*
Prostatectomy	49	2.0	1.0	*	8.2	2.4	*	8.2	4.1	*
Cholecystectomy	23	0.0	1.2	*	0.0	1.9	*	0.0	2.5	*
Hysterectomy	10	0.0	0.2	*	10.0	0.5	*	10.0	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	359
Occupancy Rate	56
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	137
Percent of Physicians Board Certified Specialists	48
Medical Residents/Interns	72
Registered Nurses	260
Licensed Practical Nurses	108

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

FLINT OSTEOPATHIC HOSPITAL

Medicare Provider Number: 230197

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,207	9.2	10.6	1.0	15.2	15.9	1.3	18.7	20.0	1.1
CONDITIONS:										
Acute Myocardial Infarction	65	21.5	23.7	5.6	26.2	27.4	5.8	29.2	31.0	6.8
Congestive Heart Failure	141	16.3	18.7	4.1	23.4	28.5	5.7	32.6	35.9	6.5
Pneumonia/Influenza	105	14.3	19.5	6.4	21.9	26.3	6.6	26.7	31.5	7.3
Chronic Obstructive Pulmonary Disease	70	8.6	8.3	4.3	10.0	13.8	6.3	14.3	18.1	8.0
Transient Cerebral Ischemia	59	1.7	2.7	2.3	3.4	6.1	4.1	6.8	9.5	5.4
Stroke	82	12.2	21.7	7.3	19.5	29.0	7.8	25.6	33.7	7.4
Hip Fracture	44	4.5	7.8	*	15.9	13.6	*	20.5	17.1	*
Sepsis	27	40.7	32.2	*	55.6	39.7	*	55.6	45.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	17	0.0	3.9	*	0.0	7.1	*	0.0	10.0	*
Carotid Endarterectomy	11	0.0	2.6	*	0.0	5.3	*	0.0	7.6	*
Hip Replacement/Reconstruction	42	0.0	3.2	*	11.9	5.7	*	11.9	7.3	*
Open Reduction of Hip Fracture	20	10.0	7.2	*	15.0	13.2	*	20.0	16.9	*
Prostatectomy	53	0.0	0.8	*	0.0	2.0	*	0.0	3.4	*
Cholecystectomy	21	0.0	2.1	*	4.8	4.0	*	9.5	5.4	*
Hysterectomy	11	0.0	0.4	*	0.0	0.7	*	0.0	0.9	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,079	8.9	10.0	1.1	14.3	14.9	1.2	17.7	18.7	1.1
CONDITIONS:										
Acute Myocardial Infarction	64	37.5	30.1	10.1	45.3	33.8	10.5	45.3	37.2	10.5
Congestive Heart Failure	114	13.2	18.9	6.6	23.7	28.7	8.1	29.8	36.1	9.9
Pneumonia/Influenza	100	19.0	17.2	5.9	27.0	22.9	8.0	33.0	27.6	10.2
Chronic Obstructive Pulmonary Disease	43	2.3	10.3	*	7.0	15.8	*	7.0	20.0	*
Transient Cerebral Ischemia	46	0.0	2.0	*	2.2	4.3	*	8.7	6.7	*
Stroke	64	25.0	22.0	5.8	29.7	29.2	5.8	32.8	33.7	6.0
Hip Fracture	37	5.4	8.5	*	10.8	14.5	*	13.5	18.2	*
Sepsis	18	44.4	36.5	*	50.0	42.8	*	50.0	48.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	17	0.0	2.8	*	11.8	5.8	*	23.5	8.5	*
Carotid Endarterectomy	10	0.0	1.6	*	0.0	3.0	*	0.0	4.3	*
Hip Replacement/Reconstruction	31	3.2	3.3	*	9.7	6.0	*	9.7	8.1	*
Open Reduction of Hip Fracture	22	9.1	8.3	*	9.1	14.9	*	13.6	18.8	*
Prostatectomy	56	1.8	0.9	1.5	3.6	2.2	2.4	5.4	3.7	3.4
Cholecystectomy	19	5.3	1.6	*	5.3	2.7	*	5.3	3.6	*
Hysterectomy	13	0.0	0.8	*	0.0	1.3	*	0.0	1.8	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FOH

Medicare Provider: 23-0197

Matthew J. Weiss, D.O., M.P.H.
Vice President, Geriatric Services
(313) 762-4236

January 14, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
2-D-2 Meadows East Bldg.
6325 Security Boulevard
Baltimore, Maryland 21207

Thank you for the opportunity to respond to the 1989 Medicare Hospital Mortality Information. Flint Osteopathic Hospital is a 359 bed non-profit, full service hospital.

The All Cause Mortality Rate in 1989 for patients who died within 30 days of hospital discharge is significantly lower than 1988. Changes in methodology and diagnostic categories make it difficult to compare all of the previous data but there is a 25% decline in Observed-All Cause Mortality (9.4% versus 12.5%). Again, some discrepancies were found to exist between the mortality cases as reported by HCFA and those recorded in our management information system but they do not appear to be significant.

In reviewing inpatient Medicare mortality, 83% of the total number of patient deaths within 30 days had advance directives that restricted the institution of cardiopulmonary resuscitation or artificial life support. This is an increase from 71% of patients who had limitations on artificial life support in 1988. Of the total number of patients who died during hospitalization, fully 91% had orders to limit artificial life support at the time of their death.

With increasing awareness of patients to make advance directives, the recent legislation of the Michigan Probate Code to allow for appointment of decision-makers to withhold or withdraw artificial life support, and the introduction of the Patient Self Determination Act which becomes effective in 1991, measurement of these variables should take

Flint Osteopathic Hospital, 3921 Beecher Road, Flint, Michigan 48532, (313) 762-4000

precedence when developing future mortality statistics. In these groups of patients, mortality as a pure indicator of quality of care or intensity of service will be significantly limited. Other methodologies should be incorporated to predict appropriate care.

This year, HCFA has included data that relates to mortality rates at 90 and 180 day intervals. It is not clear what statistical or meaningful inference should be applied to this data. Variables that are far beyond the scope of hospitalization may have contributed to mortality. While Flint Osteopathic Hospital's Observed-All Cause Mortality was less than the predicted, it is still not clear what relevance this has at 90 and 180 day intervals.

We appreciate the changes that HCFA has continued to make in its presentation format and analytic model. We encourage them to incorporate other variables, such as CPR status and to question the utility and meaning of mortality statistics so far removed from hospitalization. Flint Osteopathic Hospital has strived to maintain the highest standards of quality assurance through its Institutional Review Committee, Bio-Ethics Committee and State PRO organizations. This continuing process along with portions of the hospital mortality information will allow us to continually address the issues of quality of care and maintain as high a standard as possible.

Sincerely,

Matthew J Weiss

Matthew J. Weiss, D.O., M.P.H.
Vice President, Geriatric Services

FRANCIS A BELL MEMORIAL HOSPITAL

101 S 4th St
Ishpeming, MI 49849

Medicare Provider Number: 230001

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	520	9.2	11.0	2.2	13.3	15.6	2.3	17.5	19.3	2.1
CONDITIONS:										
Acute Myocardial Infarction	27	22.2	27.5	*	29.6	31.0	*	29.6	34.8	*
Congestive Heart Failure	28	14.3	16.2	*	17.9	23.2	*	25.0	30.0	*
Pneumonia/Influenza	29	0.0	15.0	*	3.4	20.3	*	6.9	24.7	*
Chronic Obstructive Pulmonary Disease	9	0.0	7.1	*	0.0	12.8	*	0.0	17.9	*
Transient Cerebral Ischemia	9	0.0	1.6	*	0.0	3.6	*	11.1	5.7	*
Stroke	21	14.3	24.5	*	19.0	31.3	*	42.9	36.1	*
Hip Fracture	19	10.5	5.9	*	21.1	10.9	*	21.1	14.6	*
Sepsis	9	11.1	31.8	*	11.1	38.0	*	22.2	44.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	0.9	*	0.0	2.3	*	0.0	3.8	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	9	11.1	6.0	*	22.2	11.7	*	22.2	15.9	*
Open Reduction of Hip Fracture	5	0.0	6.3	*	0.0	11.7	*	0.0	15.2	*
Prostatectomy	17	0.0	0.5	*	0.0	1.2	*	5.9	2.0	*
Cholecystectomy	18	0.0	1.7	*	0.0	2.9	*	0.0	3.7	*
Hysterectomy	2	50.0	2.0	*	50.0	4.7	*	50.0	7.7	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	69
Occupancy Rate	40
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	30
Percent of Physicians Board Certified Specialists	60
Medical Residents/Interns	0
Registered Nurses	38
Licensed Practical Nurses	30

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

FRANCIS A BELL MEMORIAL HOSPITAL

Medicare Provider Number: 230001

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	633	9.3	11.3	1.8	14.5	15.7	2.2	16.7	19.2	2.2
CONDITIONS:										
Acute Myocardial Infarction	44	11.4	32.5	*	15.9	36.0	*	20.5	39.5	*
Congestive Heart Failure	39	12.8	17.7	*	25.6	24.8	*	28.2	31.5	*
Pneumonia/Influenza	32	15.6	16.7	*	28.1	22.5	*	28.1	27.1	*
Chronic Obstructive Pulmonary Disease	4	0.0	5.4	*	25.0	9.4	*	25.0	13.0	*
Transient Cerebral Ischemia	16	0.0	1.9	*	6.3	4.0	*	6.3	6.2	*
Stroke	28	21.4	21.6	*	39.3	28.1	*	42.9	33.0	*
Hip Fracture	16	18.8	6.6	*	25.0	11.6	*	25.0	14.7	*
Sepsis	12	41.7	30.4	*	41.7	37.2	*	41.7	43.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	7.7	*	25.0	13.2	*	25.0	17.9	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	0.0	3.6	*	0.0	7.4	*	0.0	10.1	*
Open Reduction of Hip Fracture	4	25.0	4.9	*	25.0	8.4	*	25.0	10.5	*
Prostatectomy	16	6.3	0.9	*	12.5	2.4	*	12.5	4.2	*
Cholecystectomy	8	0.0	2.2	*	0.0	3.6	*	0.0	4.5	*
Hysterectomy	4	0.0	0.1	*	0.0	0.2	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	610	10.3	10.2	1.4	14.9	14.8	1.5	18.2	18.5	1.6
CONDITIONS:										
Acute Myocardial Infarction	37	16.2	26.0	*	16.2	29.6	*	21.6	33.0	*
Congestive Heart Failure	34	14.7	18.4	*	20.6	26.5	*	26.5	33.5	*
Pneumonia/Influenza	22	18.2	14.7	*	18.2	19.7	*	18.2	24.0	*
Chronic Obstructive Pulmonary Disease	10	10.0	8.1	*	10.0	14.5	*	20.0	20.0	*
Transient Cerebral Ischemia	13	0.0	2.3	*	7.7	4.9	*	7.7	7.9	*
Stroke	38	18.4	21.8	*	26.3	27.8	*	28.9	32.4	*
Hip Fracture	14	28.6	6.2	*	28.6	11.3	*	28.6	14.7	*
Sepsis	12	8.3	17.7	*	25.0	25.0	*	33.3	30.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	13	15.4	5.7	*	15.4	10.3	*	15.4	13.9	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	7.3	*	0.0	12.9	*	0.0	16.5	*
Open Reduction of Hip Fracture	5	20.0	5.2	*	20.0	10.1	*	20.0	13.4	*
Prostatectomy	13	0.0	1.9	*	0.0	4.8	*	7.7	7.9	*
Cholecystectomy	16	0.0	2.8	*	0.0	4.6	*	0.0	5.6	*
Hysterectomy	2	0.0	1.2	*	0.0	2.3	*	0.0	3.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

GARDEN CITY OSTEOPATHIC HOSPITAL

6245 North Inkster Rd
Garden City, MI 48135

Medicare Provider Number: 230244

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,110	13.5	12.7	1.2	20.0	18.8	1.1	25.2	23.4	1.3
CONDITIONS:										
Acute Myocardial Infarction	103	22.3	29.5	6.0	26.2	32.9	6.0	29.1	36.7	6.6
Congestive Heart Failure	129	17.1	17.2	3.4	27.1	26.3	4.0	38.0	33.5	5.8
Pneumonia/Influenza	98	21.4	18.1	4.1	32.7	24.7	5.3	41.8	29.7	6.6
Chronic Obstructive Pulmonary Disease	32	15.6	6.3	*	18.8	11.4	*	28.1	16.0	*
Transient Cerebral Ischemia	44	6.8	1.7	*	6.8	3.6	*	9.1	5.7	*
Stroke	102	21.6	20.6	5.6	30.4	27.7	5.8	36.3	32.0	7.7
Hip Fracture	61	9.8	6.2	3.6	9.8	10.9	4.0	11.5	14.0	4.7
Sepsis	39	35.9	27.0	*	41.0	35.6	*	43.6	41.5	*
PROCEDURES:										
Angioplasty	2	0.0	15.1	*	0.0	17.0	*	0.0	19.1	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	0.0	3.1	*	0.0	6.5	*	0.0	10.1	*
Carotid Endarterectomy	2	0.0	1.3	*	0.0	2.3	*	0.0	3.4	*
Hip Replacement/Reconstruction	35	5.7	4.6	*	5.7	8.6	*	5.7	11.3	*
Open Reduction of Hip Fracture	29	10.3	5.8	*	10.3	10.4	*	13.8	13.3	*
Prostatectomy	56	0.0	1.2	*	0.0	2.7	*	0.0	4.5	*
Cholecystectomy	31	3.2	2.5	*	6.5	4.4	*	9.7	5.9	*
Hysterectomy	10	0.0	1.6	*	0.0	3.0	*	0.0	4.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	256
Occupancy Rate	74
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	170
Percent of Physicians Board Certified Specialists	60
Medical Residents/Interns	52
Registered Nurses	195
Licensed Practical Nurses	43

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

GARDEN CITY OSTEOPATHIC HOSPITAL

Medicare Provider Number: 230244

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,054	14.7	12.9	1.1	22.1	19.0	1.6	26.8	23.7	1.7
CONDITIONS:										
Acute Myocardial Infarction	82	41.5	34.2	6.1	47.6	37.6	6.9	53.7	41.4	8.1
Congestive Heart Failure	136	14.0	17.6	5.2	27.2	26.2	4.5	34.6	33.0	4.6
Pneumonia/Influenza	125	30.4	22.4	4.4	45.6	30.1	6.3	52.0	35.6	6.9
Chronic Obstructive Pulmonary Disease	41	9.8	8.9	*	22.0	15.4	*	24.4	21.1	*
Transient Cerebral Ischemia	28	7.1	1.8	*	10.7	4.0	*	10.7	6.3	*
Stroke	92	30.4	21.8	7.3	38.0	28.7	8.2	40.2	33.3	7.0
Hip Fracture	70	7.1	7.5	3.2	12.9	13.3	4.1	15.7	16.9	4.9
Sepsis	37	29.7	33.5	*	43.2	42.5	*	51.4	49.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	28.6	4.7	*	28.6	8.7	*	28.6	12.3	*
Carotid Endarterectomy	4	0.0	2.4	*	0.0	4.6	*	0.0	6.8	*
Hip Replacement/Reconstruction	29	6.9	5.6	*	13.8	10.9	*	17.2	14.3	*
Open Reduction of Hip Fracture	35	11.4	7.7	*	17.1	13.9	*	20.0	17.6	*
Prostatectomy	78	1.3	1.5	2.0	3.8	3.4	3.5	10.3	5.4	3.5
Cholecystectomy	34	5.9	4.4	*	8.8	7.3	*	8.8	9.3	*
Hysterectomy	16	0.0	2.0	*	0.0	3.9	*	0.0	5.5	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,803	15.8	13.0	1.4	22.1	19.0	1.2	27.4	23.7	1.4
CONDITIONS:										
Acute Myocardial Infarction	71	46.5	31.0	6.8	53.5	33.9	7.5	57.7	37.3	7.6
Congestive Heart Failure	117	20.5	19.0	3.9	23.9	28.2	5.5	35.0	35.5	5.1
Pneumonia/Influenza	103	31.1	22.8	5.2	41.7	30.5	6.0	51.5	36.2	7.0
Chronic Obstructive Pulmonary Disease	69	8.7	9.7	7.5	17.4	15.8	5.8	20.3	20.6	4.9
Transient Cerebral Ischemia	22	4.5	2.4	*	13.6	5.5	*	22.7	8.8	*
Stroke	85	24.7	21.3	8.3	36.5	29.1	11.4	40.0	33.9	10.7
Hip Fracture	54	9.3	6.3	3.8	9.3	11.1	4.4	11.1	14.3	5.5
Sepsis	45	31.1	33.1	*	48.9	41.7	*	60.0	48.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	10	0.0	5.3	*	0.0	10.1	*	10.0	13.8	*
Carotid Endarterectomy	1	0.0	2.0	*	0.0	3.5	*	0.0	5.1	*
Hip Replacement/Reconstruction	14	7.1	5.8	*	7.1	11.1	*	14.3	14.9	*
Open Reduction of Hip Fracture	33	6.1	5.4	*	6.1	9.9	*	6.1	12.8	*
Prostatectomy	56	3.6	1.2	3.1	3.6	3.0	3.2	3.6	5.0	4.5
Cholecystectomy	26	3.8	3.4	*	3.8	5.8	*	7.7	7.3	*
Hysterectomy	8	12.5	0.5	*	12.5	1.0	*	12.5	1.6	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

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GARDEN CITY HOSPITAL
OSTEOPATHIC

GCOH

6245 N. INKSTER ROAD
GARDEN CITY, MICHIGAN 48135
(313) 421-3300

MEDICAL ADMINISTRATION

CALVIN C. KAY, D.O.
Senior Vice President, Medical Affairs
Ext. 4484

NORVILLE H. SCHOCK, Ph.D.
Vice President, Medical Education
Ext. 4486

January 9, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
Attn: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

RE: Mortality Data Release

Dear Mrs. Kappert:

Garden City Hospital has received and reviewed the data provided by HCFA. This data will be utilized in developing models for patient care at our institution. A special Task Force has been reappointed to evaluate this data and to find methods that will best improve patient care at our institution. The data has also been made available to our Quality Assurance Committee and, as in previous years, various members of our Medical Staff and Administrative team will utilize the data in our continuing process of providing proper patient services.

Sincerely,

Calvin Kay

Calvin C. Kay, D.O. Senior Vice President
Chief Medical Officer

CCK:sk
4598J.cck80
cc: Mr. Ley, President
K. Etue
D. O'Neil
Quality Assurance Committee
Certified P414508599

GENESEE MEMORIAL HOSPITAL

702 Ballenger Hwy
Flint, MI 48502

Medicare Provider Number: 230114

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	44	0.0	0.6	*	0.0	1.2	*	0.0	1.8	*
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	6	0.0	0.5	*	0.0	1.1	*	0.0	2.0	*
Cholecystectomy	2	0.0	1.3	*	0.0	2.8	*	0.0	4.1	*
Hysterectomy	0									

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	41
Occupancy Rate	2
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	19
Percent of Physicians Board Certified Specialists	84
Medical Residents/Interns	2
Registered Nurses	22
Licensed Practical Nurses	2

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

GENESEE MEMORIAL HOSPITAL

Medicare Provider Number: 230114

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	98	3.1	1.7	2.5	4.1	3.1	3.4	6.1	4.4	3.9
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	3	33.3	11.6	*	33.3	19.2	*	33.3	25.4	*
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	17	0.0	0.3	*	0.0	0.8	*	0.0	1.4	*
Cholecystectomy	2	0.0	0.7	*	0.0	1.2	*	0.0	1.6	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	120	3.3	2.2	1.7	3.3	3.8	2.2	3.3	5.3	3.3
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	1	0.0	6.8	*	0.0	9.8	*	0.0	12.4	*
Chronic Obstructive Pulmonary Disease	2	0.0	19.3	*	0.0	30.0	*	0.0	37.2	*
Transient Cerebral Ischemia	1	0.0	2.7	*	0.0	6.4	*	0.0	10.7	*
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	17	0.0	0.4	*	0.0	0.9	*	0.0	1.6	*
Cholecystectomy	2	0.0	0.5	*	0.0	1.1	*	0.0	1.7	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

GERBER MEMORIAL HOSPITAL

212 S Sullivan St
Fremont, MI 49412

Medicare Provider Number: 230106

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	485	9.3	11.2	2.1	14.6	16.3	2.6	17.9	20.3	3.5
CONDITIONS:										
Acute Myocardial Infarction	11	18.2	24.6	*	18.2	28.1	*	18.2	31.8	*
Congestive Heart Failure	53	18.9	15.7	7.2	24.5	23.8	5.9	28.3	30.5	6.6
Pneumonia/Influenza	68	4.4	16.5	7.2	14.7	22.2	6.5	19.1	26.8	6.6
Chronic Obstructive Pulmonary Disease	5	0.0	8.9	*	40.0	15.4	*	40.0	21.1	*
Transient Cerebral Ischemia	7	0.0	2.9	*	14.3	7.2	*	14.3	11.8	*
Stroke	24	20.8	21.6	*	25.0	28.7	*	29.2	33.4	*
Hip Fracture	12	8.3	5.2	*	8.3	9.4	*	8.3	12.4	*
Sepsis	4	0.0	16.8	*	0.0	23.2	*	0.0	28.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	4.1	*	0.0	7.7	*	0.0	10.2	*
Open Reduction of Hip Fracture	7	14.3	5.2	*	14.3	9.9	*	14.3	13.3	*
Prostatectomy	0									
Cholecystectomy	17	0.0	2.4	*	0.0	4.4	*	0.0	5.9	*
Hysterectomy	1	0.0	0.1	*	0.0	0.3	*	0.0	0.3	*

* **The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	73
Occupancy Rate	23
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	28
Percent of Physicians Board Certified Specialists	61
Medical Residents/Interns	0
Registered Nurses	61
Licensed Practical Nurses	19

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

** **Not used in calculating hospital mortality rates.**

GERBER MEMORIAL HOSPITAL

Medicare Provider Number: 230106

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	424	13.0	12.2	1.7	17.2	17.3	2.0	20.8	21.4	2.4
CONDITIONS:										
Acute Myocardial Infarction	18	22.2	25.1	*	22.2	28.0	*	22.2	31.2	*
Congestive Heart Failure	39	25.6	16.4	*	33.3	25.0	*	35.9	31.9	*
Pneumonia/Influenza	55	10.9	16.2	7.5	10.9	21.5	9.2	10.9	25.8	11.8
Chronic Obstructive Pulmonary Disease	14	14.3	12.5	*	14.3	20.7	*	14.3	26.8	*
Transient Cerebral Ischemia	7	0.0	2.0	*	28.6	5.0	*	28.6	8.9	*
Stroke	20	25.0	23.2	*	35.0	30.0	*	40.0	34.7	*
Hip Fracture	7	0.0	7.9	*	0.0	13.7	*	0.0	17.3	*
Sepsis	5	20.0	32.6	*	40.0	39.6	*	40.0	46.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	4.1	*	0.0	7.5	*	0.0	9.7	*
Open Reduction of Hip Fracture	4	0.0	9.5	*	0.0	17.5	*	0.0	22.5	*
Prostatectomy	0									
Cholecystectomy	7	0.0	2.1	*	0.0	3.7	*	14.3	4.6	*
Hysterectomy	5	0.0	0.5	*	0.0	0.9	*	0.0	1.2	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	371	15.6	11.8	2.7	20.8	17.0	2.9	24.3	21.2	3.0
CONDITIONS:										
Acute Myocardial Infarction	16	25.0	23.9	*	31.3	26.7	*	37.5	29.8	*
Congestive Heart Failure	44	25.0	16.1	*	29.5	23.2	*	34.1	29.6	*
Pneumonia/Influenza	34	14.7	16.5	*	20.6	22.2	*	32.4	27.1	*
Chronic Obstructive Pulmonary Disease	8	12.5	13.3	*	12.5	20.9	*	25.0	26.5	*
Transient Cerebral Ischemia	7	0.0	1.3	*	0.0	2.7	*	0.0	4.2	*
Stroke	12	50.0	17.4	*	50.0	23.1	*	58.3	27.5	*
Hip Fracture	15	13.3	6.1	*	13.3	11.6	*	13.3	15.4	*
Sepsis	6	50.0	37.1	*	50.0	46.3	*	50.0	54.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	8	12.5	6.7	*	12.5	12.9	*	12.5	17.2	*
Open Reduction of Hip Fracture	9	11.1	5.3	*	11.1	11.0	*	11.1	15.2	*
Prostatectomy	0									
Cholecystectomy	7	0.0	1.4	*	0.0	2.5	*	0.0	3.5	*
Hysterectomy	3	0.0	0.4	*	0.0	0.6	*	0.0	0.9	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

GRACE HOSPITAL NORTHWESTERN UNIT

18700 Myers Rd
Detroit, MI 48235

Medicare Provider Number: 230128

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,424	13.2	11.3	0.9	20.2	17.6	1.1	24.9	22.3	1.2
CONDITIONS:										
Acute Myocardial Infarction	61	24.6	26.9	6.5	27.9	30.3	6.7	29.5	33.4	7.8
Congestive Heart Failure	131	13.7	15.3	3.9	24.4	23.8	3.8	31.3	30.6	4.2
Pneumonia/Influenza	45	24.4	16.8	*	28.9	23.0	*	33.3	27.7	*
Chronic Obstructive Pulmonary Disease	20	5.0	9.5	*	5.0	15.3	*	10.0	20.2	*
Transient Cerebral Ischemia	38	2.6	1.8	*	2.6	4.1	*	2.6	6.4	*
Stroke	92	20.7	18.4	4.8	29.3	25.6	8.3	37.0	30.0	9.7
Hip Fracture	45	6.7	8.9	*	17.8	15.7	*	24.4	20.1	*
Sepsis	96	36.5	25.6	5.4	51.0	36.6	5.8	61.5	43.1	6.8
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	23	0.0	2.9	*	0.0	5.3	*	4.3	7.5	*
Carotid Endarterectomy	8	0.0	1.4	*	0.0	2.5	*	0.0	3.8	*
Hip Replacement/Reconstruction	19	5.3	2.3		5.3	4.1	*	5.3	5.7	*
Open Reduction of Hip Fracture	34	2.9	8.4	*	17.6	15.6	*	26.5	20.3	*
Prostatectomy	121	0.8	0.9	0.9	0.8	2.3	1.8	2.5	3.9	2.4
Cholecystectomy	45	6.7	3.6	*	8.9	6.6	*	8.9	8.8	*
Hysterectomy	21	0.0	0.7	*	4.8	1.7	*	4.8	2.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	294
Occupancy Rate	85
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	302
Percent of Physicians Board Certified Specialists	67
Medical Residents/Interns	63
Registered Nurses	313
Licensed Practical Nurses	47

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

GRACE HOSPITAL NORTHWESTERN UNIT

Medicare Provider Number: 230128

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,493	13.3	10.8	0.7	21.9	17.1	1.0	26.7	21.6	1.0
CONDITIONS:										
Acute Myocardial Infarction	55	27.3	23.0	6.1	34.5	26.3	7.8	40.0	29.7	7.9
Congestive Heart Failure	116	14.7	15.8	3.8	24.1	24.2	4.0	30.2	31.0	4.8
Pneumonia/Influenza	80	30.0	17.4	5.7	42.5	23.4	7.8	47.5	28.3	7.8
Chronic Obstructive Pulmonary Disease	40	10.0	12.0	*	22.5	19.8	*	25.0	25.9	*
Transient Cerebral Ischemia	47	4.3	2.2	*	4.3	4.9	*	8.5	7.8	*
Stroke	75	22.7	20.1	6.2	30.7	27.1	9.5	34.7	31.7	10.1
Hip Fracture	55	12.7	6.8	4.7	23.6	12.6	7.7	29.1	16.5	9.6
Sepsis	123	43.9	27.6	4.6	62.6	39.7	5.0	73.2	46.9	5.1
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	18	0.0	4.9	*	0.0	8.6	*	0.0	11.5	*
Carotid Endarterectomy	10	0.0	1.2	*	0.0	2.1	*	0.0	3.0	*
Hip Replacement/Reconstruction	20	10.0	4.0	*	20.0	7.8	*	25.0	10.6	*
Open Reduction of Hip Fracture	40	10.0	5.9	*	22.5	11.4	*	27.5	15.2	*
Prostatectomy	114	0.0	1.2	1.5	2.6	2.6	2.0	3.5	4.1	2.5
Cholecystectomy	28	7.1	2.3	*	7.1	4.3	*	7.1	5.7	*
Hysterectomy	25	0.0	0.6	*	0.0	1.2	*	4.0	1.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,325	13.3	11.6	0.8	21.2	17.8	0.9	26.2	22.2	1.0
CONDITIONS:										
Acute Myocardial Infarction	62	27.4	30.7	6.4	32.3	34.7	6.8	37.1	38.4	6.4
Congestive Heart Failure	116	24.1	17.8	5.5	37.9	26.7	6.7	44.0	33.8	7.5
Pneumonia/Influenza	56	19.6	16.8	9.0	30.4	22.6	11.1	32.1	27.1	9.7
Chronic Obstructive Pulmonary Disease	34	8.8	12.2	*	17.6	20.1	*	26.5	25.8	*
Transient Cerebral Ischemia	35	0.0	1.7	*	5.7	3.6	*	8.6	5.7	*
Stroke	82	14.6	20.3	5.6	25.6	27.4	5.3	32.9	31.8	5.6
Hip Fracture	48	10.4	7.6	*	16.7	13.3	*	22.9	16.8	*
Sepsis	125	38.4	28.0	4.8	56.8	39.3	6.0	65.6	46.1	6.4
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	12	0.0	3.3	*	8.3	6.9	*	8.3	10.0	*
Carotid Endarterectomy	10	0.0	1.5	*	0.0	2.9	*	0.0	4.2	*
Hip Replacement/Reconstruction	19	5.3	3.1	*	5.3	5.7	*	15.8	7.6	*
Open Reduction of Hip Fracture	33	12.1	7.3	*	21.2	13.6	*	27.3	17.6	*
Prostatectomy	99	4.0	1.0	1.6	6.1	2.5	2.4	7.1	4.1	2.8
Cholecystectomy	29	6.9	2.7	*	10.3	5.3	*	10.3	7.1	*
Hysterectomy	22	4.5	0.8	*	4.5	1.9	*	4.5	3.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

GRAND VIEW HOSPITAL

N10561 Grand View Lane
Ironwood, MI 49938

Medicare Provider Number: 230143

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	587	10.9	13.7	2.0	16.4	19.3	2.3	19.8	23.5	2.6
CONDITIONS:										
Acute Myocardial Infarction	23	34.8	37.9	*	34.8	40.5	*	43.5	44.0	*
Congestive Heart Failure	41	9.8	14.2	*	19.5	21.5	*	22.0	27.8	*
Pneumonia/Influenza	42	19.0	21.5	*	28.6	28.7	*	33.3	34.3	*
Chronic Obstructive Pulmonary Disease	13	0.0	3.9	*	7.7	7.9	*	15.4	11.7	*
Transient Cerebral Ischemia	10	0.0	1.6	*	0.0	3.5	*	0.0	5.5	*
Stroke	38	7.9	21.4	*	7.9	28.1	*	10.5	32.7	*
Hip Fracture	7	0.0	6.1	*	14.3	10.4	*	14.3	13.2	*
Sepsis	9	0.0	22.3	*	33.3	29.3	*	44.4	34.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	41.7	*	0.0	49.3	*	0.0	53.6	*
Carotid Endarterectomy	2	0.0	1.4	*	0.0	2.6	*	0.0	4.0	*
Hip Replacement/Reconstruction	6	0.0	4.2	*	16.7	7.6	*	16.7	9.8	*
Open Reduction of Hip Fracture	2	0.0	7.5	*	0.0	13.0	*	0.0	16.3	*
Prostatectomy	0									
Cholecystectomy	30	3.3	2.4	*	3.3	4.0	*	3.3	5.0	*
Hysterectomy	9	0.0	1.1	*	0.0	2.0	*	0.0	2.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	53
Occupancy Rate	38
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	14
Percent of Physicians Board Certified Specialists	71
Medical Residents/Interns	0
Registered Nurses	21
Licensed Practical Nurses	12

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

GRAND VIEW HOSPITAL

Medicare Provider Number: 230143

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	658	12.9	12.9	1.6	18.4	18.5	1.6	21.9	22.7	1.9
CONDITIONS:										
Acute Myocardial Infarction	23	43.5	30.5	*	43.5	33.4	*	47.8	37.0	*
Congestive Heart Failure	42	14.3	16.0	*	26.2	24.1	*	31.0	30.8	*
Pneumonia/Influenza	46	13.0	15.9	*	15.2	21.2	*	21.7	25.6	*
Chronic Obstructive Pulmonary Disease	8	0.0	5.5	*	0.0	10.2	*	0.0	14.4	*
Transient Cerebral Ischemia	8	0.0	2.6	*	0.0	6.0	*	0.0	9.8	*
Stroke	42	16.7	18.5	*	26.2	25.2	*	31.0	29.8	*
Hip Fracture	14	7.1	7.9	*	7.1	14.5	*	7.1	18.7	*
Sepsis	10	20.0	32.5	*	20.0	39.6	*	20.0	44.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	100.0	26.8	*	100.0	30.2	*	100.0	33.7	*
Carotid Endarterectomy	4	0.0	1.4	*	0.0	2.5	*	0.0	3.7	*
Hip Replacement/Reconstruction	10	10.0	6.7	*	10.0	12.9	*	10.0	17.0	*
Open Reduction of Hip Fracture	2	0.0	5.3	*	0.0	10.4	*	0.0	13.9	*
Prostatectomy	0									
Cholecystectomy	17	11.8	5.3	*	11.8	9.5	*	17.6	12.1	*
Hysterectomy	14	0.0	1.1	*	0.0	2.1	*	7.1	3.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	607	12.7	12.8	1.4	18.1	18.3	2.0	21.3	22.4	2.0
CONDITIONS:										
Acute Myocardial Infarction	19	21.1	37.3	*	31.6	41.2	*	42.1	45.1	*
Congestive Heart Failure	42	16.7	16.8	*	23.8	24.9	*	26.2	31.5	*
Pneumonia/Influenza	29	27.6	20.7	*	31.0	27.5	*	31.0	32.9	*
Chronic Obstructive Pulmonary Disease	9	0.0	9.9	*	0.0	15.8	*	0.0	20.3	*
Transient Cerebral Ischemia	12	0.0	1.5	*	0.0	3.1	*	0.0	4.6	*
Stroke	27	33.3	20.9	*	33.3	27.8	*	44.4	32.4	*
Hip Fracture	15	0.0	5.2	*	13.3	9.4	*	13.3	12.3	*
Sepsis	12	33.3	26.6	*	58.3	36.6	*	58.3	43.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	8	0.0	1.4	*	0.0	2.8	*	0.0	4.2	*
Hip Replacement/Reconstruction	6	0.0	4.3	*	16.7	8.0	*	16.7	10.7	*
Open Reduction of Hip Fracture	7	0.0	4.3	*	14.3	8.5	*	14.3	11.4	*
Prostatectomy	0									
Cholecystectomy	17	5.9	4.1	*	5.9	6.4	*	5.9	7.8	*
Hysterectomy	6	0.0	1.0	*	16.7	1.9	*	16.7	2.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

GRATIOT COMMUNITY HOSPITAL

300 Warwick Drive
Alma, MI 48801

Medicare Provider Number: 230030

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	985	11.3	8.2	1.2	16.8	12.7	1.6	19.5	16.3	1.5
CONDITIONS:										
Acute Myocardial Infarction	39	35.9	21.2	*	38.5	25.3	*	38.5	28.9	*
Congestive Heart Failure	52	25.0	16.1	11.6	34.6	25.1	13.0	42.3	32.1	13.3
Pneumonia/Influenza	43	18.6	16.9	*	34.9	23.5	*	37.2	28.6	*
Chronic Obstructive Pulmonary Disease	7	0.0	5.3	*	0.0	10.5	*	0.0	15.4	*
Transient Cerebral Ischemia	18	0.0	2.0	*	5.6	4.6	*	5.6	7.5	*
Stroke	35	22.9	19.2	*	25.7	26.4	*	28.6	31.0	*
Hip Fracture	43	14.0	6.1	*	16.3	11.0	*	20.9	14.4	*
Sepsis	18	33.3	25.7	*	33.3	31.6	*	33.3	37.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	12	0.0	4.0	*	8.3	8.2	*	16.7	12.4	*
Carotid Endarterectomy	7	0.0	1.4	*	0.0	2.6	*	0.0	3.9	*
Hip Replacement/Reconstruction	20	5.0	2.6	*	5.0	4.9	*	5.0	6.6	*
Open Reduction of Hip Fracture	25	12.0	5.5	*	12.0	10.1	*	20.0	13.3	*
Prostatectomy	34	2.9	0.8	*	8.8	2.0	*	8.8	3.2	*
Cholecystectomy	38	0.0	2.4	*	0.0	4.5	*	2.6	6.1	*
Hysterectomy	11	0.0	0.8	*	0.0	1.6	*	0.0	2.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	94
Occupancy Rate	69
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	48
Percent of Physicians Board Certified Specialists	75
Medical Residents/Interns	0
Registered Nurses	104
Licensed Practical Nurses	43

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

GRATIOT COMMUNITY HOSPITAL

Medicare Provider Number: 230030

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,035	11.9	8.4	1.5	15.7	12.9	1.4	19.3	16.5	1.5
CONDITIONS:										
Acute Myocardial Infarction	30	36.7	24.0	*	43.3	27.4	*	56.7	30.8	*
Congestive Heart Failure	40	22.5	15.4	*	27.5	23.4	*	35.0	30.1	*
Pneumonia/Influenza	40	22.5	16.6	*	25.0	22.3	*	35.0	27.0	*
Chronic Obstructive Pulmonary Disease	16	18.8	8.3	*	25.0	14.6	*	37.5	20.2	*
Transient Cerebral Ischemia	6	0.0	2.5	*	0.0	5.6	*	0.0	8.9	*
Stroke	34	26.5	17.9	*	29.4	24.4	*	35.3	28.8	*
Hip Fracture	36	11.1	8.5	*	13.9	15.1	*	16.7	19.4	*
Sepsis	12	8.3	25.9	*	25.0	32.0	*	25.0	37.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	19	5.3	3.9	*	10.5	7.2	*	15.8	10.3	*
Carotid Endarterectomy	3	0.0	1.4	*	0.0	2.7	*	0.0	4.0	*
Hip Replacement/Reconstruction	20	10.0	4.4	*	10.0	8.6	*	15.0	11.8	*
Open Reduction of Hip Fracture	27	3.7	7.1	*	7.4	13.1	*	7.4	17.3	*
Prostatectomy	43	2.3	0.9	*	2.3	2.2	*	2.3	3.7	*
Cholecystectomy	38	7.9	4.6	*	13.2	8.6	*	15.8	11.0	*
Hysterectomy	7	0.0	1.8	*	14.3	4.0	*	14.3	6.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	959	11.7	9.1	1.3	15.6	13.8	1.3	18.0	17.4	1.3
CONDITIONS:										
Acute Myocardial Infarction	47	40.4	28.6	*	44.7	32.5	*	44.7	36.4	*
Congestive Heart Failure	42	28.6	19.1	*	31.0	28.8	*	33.3	36.4	*
Pneumonia/Influenza	36	16.7	14.4	*	22.2	19.9	*	25.0	24.6	*
Chronic Obstructive Pulmonary Disease	9	11.1	6.7	*	22.2	12.5	*	22.2	17.7	*
Transient Cerebral Ischemia	12	8.3	1.9	*	16.7	4.1	*	16.7	6.5	*
Stroke	30	20.0	20.5	*	26.7	28.4	*	30.0	33.2	*
Hip Fracture	33	9.1	8.1	*	18.2	14.4	*	21.2	18.6	*
Sepsis	11	9.1	30.6	*	9.1	40.1	*	27.3	47.2	*
PROCEDURES:										
Angioplasty	1	0.0	1.3	*	0.0	2.6	*	0.0	3.5	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	22	9.1	3.0	*	9.1	6.7	*	18.2	10.3	*
Carotid Endarterectomy	6	0.0	1.6	*	0.0	3.2	*	0.0	4.7	*
Hip Replacement/Reconstruction	13	15.4	5.8	*	15.4	10.1	*	15.4	13.0	*
Open Reduction of Hip Fracture	27	7.4	6.5	*	18.5	12.4	*	22.2	16.4	*
Prostatectomy	36	0.0	1.0	*	5.6	2.6	*	8.3	4.4	*
Cholecystectomy	27	3.7	3.7	*	3.7	6.8	*	3.7	8.5	*
Hysterectomy	8	0.0	0.6	*	0.0	1.2	*	0.0	1.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HACKLEY HOSPITAL

1700 Clinton Street
Muskegon, MI 49443

Medicare Provider Number: 230066

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,919	10.1	9.0	1.0	14.6	13.9	1.0	19.0	17.8	1.2
CONDITIONS:										
Acute Myocardial Infarction	68	30.9	27.8	6.0	32.4	31.1	6.4	38.2	34.4	7.4
Congestive Heart Failure	93	12.9	14.9	5.6	18.3	22.6	7.1	25.8	29.3	6.1
Pneumonia/Influenza	66	10.6	14.9	7.3	15.2	20.1	8.7	19.7	24.3	7.2
Chronic Obstructive Pulmonary Disease	23	13.0	13.2	*	17.4	18.7	*	26.1	23.5	*
Transient Cerebral Ischemia	25	4.0	1.6	*	8.0	3.5	*	12.0	5.7	*
Stroke	67	35.8	21.9	8.4	43.3	28.8	9.1	46.3	33.3	8.6
Hip Fracture	58	8.6	6.0	6.2	15.5	10.6	5.7	15.5	13.8	6.7
Sepsis	22	22.7	26.6	*	36.4	35.0	*	45.5	41.6	*
PROCEDURES:										
Angioplasty	2	0.0	13.2	*	0.0	27.5	*	50.0	37.4	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	5	0.0	3.8	*	0.0	7.1	*	0.0	11.1	*
Carotid Endarterectomy	10	0.0	1.0	*	0.0	1.9	*	0.0	2.8	*
Hip Replacement/Reconstruction	45	2.2	2.9	*	2.2	5.4	*	2.2	7.0	*
Open Reduction of Hip Fracture	31	9.7	6.0	*	22.6	11.2	*	22.6	14.8	*
Prostatectomy	91	0.0	1.2	1.5	1.1	2.4	2.0	2.2	3.8	2.4
Cholecystectomy	64	3.1	2.7	3.6	6.3	4.9	3.7	6.3	6.4	4.0
Hysterectomy	26	0.0	0.7	*	0.0	1.6	*	0.0	2.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	337
Occupancy Rate	51
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	170
Percent of Physicians Board Certified Specialists	85
Medical Residents/Interns	0
Registered Nurses	205
Licensed Practical Nurses	58

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

HACKLEY HOSPITAL

Medicare Provider Number: 230066

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,963	9.6	8.7	0.9	14.8	13.4	1.0	19.1	17.2	1.1
CONDITIONS:										
Acute Myocardial Infarction	82	24.4	29.3	9.5	28.0	32.6	9.7	30.5	36.1	9.2
Congestive Heart Failure	98	13.3	15.2	4.1	24.5	22.8	4.8	32.7	29.3	7.6
Pneumonia/Influenza	72	20.8	18.0	6.0	25.0	24.3	5.2	29.2	29.1	5.4
Chronic Obstructive Pulmonary Disease	24	20.8	12.4	*	20.8	18.5	*	25.0	23.3	*
Transient Cerebral Ischemia	31	6.5	1.6	*	6.5	3.5	*	6.5	5.5	*
Stroke	59	22.0	20.6	5.4	23.7	27.0	7.0	27.1	31.3	6.8
Hip Fracture	56	3.6	6.1	4.5	7.1	11.1	7.3	14.3	14.4	6.9
Sepsis	20	15.0	26.8	*	25.0	33.7	*	40.0	39.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	8	0.0	6.8	*	0.0	10.1	*	25.0	13.1	*
Carotid Endarterectomy	11	0.0	0.9	*	0.0	1.7	*	0.0	2.4	*
Hip Replacement/Reconstruction	26	3.8	4.4	*	3.8	8.6	*	11.5	11.5	*
Open Reduction of Hip Fracture	32	0.0	5.0	*	6.3	9.6	*	6.3	12.8	*
Prostatectomy	102	0.0	0.5	1.1	0.0	1.2	2.2	2.0	2.1	2.0
Cholecystectomy	46	0.0	1.8	*	2.2	3.5	*	2.2	4.8	*
Hysterectomy	35	0.0	0.4	*	0.0	0.8	*	0.0	1.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,858	9.8	9.2	0.9	15.4	14.3	1.4	19.5	18.4	1.6
CONDITIONS:										
Acute Myocardial Infarction	65	30.8	30.8	5.8	32.3	34.1	6.3	32.3	37.6	7.4
Congestive Heart Failure	98	19.4	15.6	5.8	28.6	23.4	9.3	33.7	30.2	7.8
Pneumonia/Influenza	72	19.4	17.1	4.8	23.6	23.0	7.9	29.2	27.7	5.8
Chronic Obstructive Pulmonary Disease	31	19.4	12.7	*	25.8	20.0	*	29.0	25.4	*
Transient Cerebral Ischemia	50	0.0	1.8	*	2.0	3.8	*	2.0	6.0	*
Stroke	50	22.0	21.2	*	30.0	28.3	*	34.0	32.8	*
Hip Fracture	50	2.0	6.6	*	10.0	11.6	*	10.0	15.0	*
Sepsis	22	27.3	25.4	*	50.0	34.2	*	54.5	40.4	*
PROCEDURES:										
Angioplasty	1	0.0	1.0	*	0.0	1.7	*	0.0	2.6	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	9	22.2	9.7	*	22.2	16.7	*	22.2	21.5	*
Carotid Endarterectomy	10	0.0	1.2	*	0.0	2.2	*	0.0	3.3	*
Hip Replacement/Reconstruction	28	3.6	2.7	*	10.7	5.2	*	10.7	6.9	*
Open Reduction of Hip Fracture	32	0.0	6.1	*	3.1	11.4	*	3.1	14.8	*
Prostatectomy	66	0.0	0.9	1.4	3.0	2.2	2.2	3.0	3.6	2.4
Cholecystectomy	43	2.3	2.5	*	7.0	4.7	*	11.6	6.3	*
Hysterectomy	30	0.0	0.4	*	0.0	0.7	*	0.0	1.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HARBOR BEACH COMMUNITY HOSPITAL

210 S. First Street
Harbor Beach, MI 48441

Medicare Provider Number: 230213

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	159	13.8	10.1	4.2	15.7	15.1	4.0	19.5	19.1	3.5
CONDITIONS:										
Acute Myocardial Infarction	9	44.4	31.6	*	55.6	34.7	*	55.6	38.2	*
Congestive Heart Failure	12	25.0	14.3	*	33.3	23.0	*	41.7	30.4	*
Pneumonia/Influenza	9	11.1	16.3	*	22.2	22.8	*	22.2	27.6	*
Chronic Obstructive Pulmonary Disease	2	50.0	7.8	*	50.0	14.0	*	50.0	19.5	*
Transient Cerebral Ischemia	2	0.0	1.7	*	0.0	4.0	*	0.0	6.5	*
Stroke	11	18.2	14.6	*	18.2	20.4	*	27.3	24.5	*
Hip Fracture	0									
Sepsis	2	50.0	31.2	*	50.0	36.8	*	50.0	43.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	3	33.3	1.2	*	33.3	2.8	*	33.3	4.5	*
Cholecystectomy	1	100.0	0.4	*	100.0	0.6	*	100.0	0.9	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	67
Occupancy Rate	67
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	9
Percent of Physicians Board Certified Specialists	33
Medical Residents/Interns	0
Registered Nurses	11
Licensed Practical Nurses	3

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

HARBOR BEACH COMMUNITY HOSPITAL

Medicare Provider Number: 230213

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	177	9.6	10.8	2.9	15.8	16.2	3.0	18.6	20.4	3.3
CONDITIONS:										
Acute Myocardial Infarction	9	22.2	23.7	*	22.2	26.2	*	22.2	29.1	*
Congestive Heart Failure	12	0.0	15.4	*	0.0	24.2	*	16.7	31.5	*
Pneumonia/Influenza	18	5.6	13.9	*	11.1	18.5	*	16.7	22.4	*
Chronic Obstructive Pulmonary Disease	2	0.0	16.5	*	0.0	31.7	*	0.0	42.4	*
Transient Cerebral Ischemia	4	0.0	1.8	*	0.0	3.8	*	0.0	5.9	*
Stroke	10	20.0	19.8	*	30.0	28.2	*	30.0	32.7	*
Hip Fracture	2	0.0	5.1	*	0.0	10.3	*	0.0	14.3	*
Sepsis	1	0.0	27.8	*	0.0	35.9	*	0.0	41.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	4	0.0	5.3	*	0.0	9.9	*	0.0	12.4	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	176	9.7	9.1	2.2	14.2	14.0	3.0	16.5	17.7	3.6
CONDITIONS:										
Acute Myocardial Infarction	4	25.0	23.7	*	25.0	25.7	*	25.0	28.3	*
Congestive Heart Failure	13	23.1	16.0	*	38.5	24.9	*	53.8	32.1	*
Pneumonia/Influenza	14	7.1	10.3	*	14.3	14.1	*	14.3	17.6	*
Chronic Obstructive Pulmonary Disease	1	100.0	9.6	*	100.0	13.1	*	100.0	17.7	*
Transient Cerebral Ischemia	1	0.0	2.1	*	0.0	4.2	*	0.0	6.6	*
Stroke	6	33.3	15.4	*	33.3	21.3	*	33.3	25.5	*
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	5	0.0	0.3	*	0.0	0.7	*	0.0	1.2	*
Cholecystectomy	8	0.0	3.1	*	0.0	6.2	*	0.0	8.5	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HARPER GRACE HOSPITAL

3990 John R Street
Detroit, MI 48201

Medicare Provider Number: 230104

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	4,036	7.9	9.2	0.6	14.3	15.2	0.7	19.6	19.7	0.7
CONDITIONS:										
Acute Myocardial Infarction	55	14.5	21.8	7.4	21.8	24.9	6.9	27.3	28.1	6.1
Congestive Heart Failure	193	10.9	15.2	3.7	20.7	24.0	3.7	27.5	31.1	4.1
Pneumonia/Influenza	44	15.9	13.1	*	18.2	18.8	*	20.5	23.0	*
Chronic Obstructive Pulmonary Disease	22	13.6	11.7	*	18.2	17.6	*	22.7	22.4	*
Transient Cerebral Ischemia	88	2.3	1.8	1.5	3.4	3.8	2.1	4.5	5.9	3.2
Stroke	138	9.4	16.4	4.7	18.1	23.2	5.2	19.6	27.4	5.9
Hip Fracture	0									
Sepsis	26	30.8	21.8	*	30.8	31.7	*	42.3	37.4	*
PROCEDURES:										
Angioplasty	66	0.0	2.4	3.2	0.0	3.0	4.3	3.0	3.9	3.6
Coronary Artery Bypass Graft	127	4.7	5.5	2.1	7.1	8.0	2.6	9.4	9.5	2.6
Initial Pacemaker Insertion	14	0.0	4.2	*	0.0	8.0	*	7.1	11.6	*
Carotid Endarterectomy	38	2.6	1.5	*	2.6	2.8	*	2.6	4.0	*
Hip Replacement/Reconstruction	1	0.0	2.2	*	0.0	4.4	*	0.0	6.1	*
Open Reduction of Hip Fracture	0									
Prostatectomy	156	0.6	0.9	0.8	1.9	2.2	1.5	4.5	3.6	2.2
Cholecystectomy	46	6.5	3.8	*	10.9	7.7	*	15.2	10.7	*
Hysterectomy	5	0.0	4.1	*	0.0	8.0	*	0.0	12.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	623
Occupancy Rate	82
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	62
Percent of Physicians Board Certified Specialists	61
Medical Residents/Interns	0
Registered Nurses	736
Licensed Practical Nurses	127

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	Yes
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

HARPER GRACE HOSPITAL

Medicare Provider Number: 230104

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,837	8.2	9.0	0.6	15.7	14.9	0.8	20.5	19.3	0.8
CONDITIONS:										
Acute Myocardial Infarction	60	16.7	23.4	6.3	25.0	27.3	5.9	26.7	31.1	6.3
Congestive Heart Failure	138	13.8	14.8	3.1	24.6	23.3	3.7	34.8	30.3	5.4
Pneumonia/Influenza	47	14.9	17.0	*	34.0	23.6	*	36.2	28.6	*
Chronic Obstructive Pulmonary Disease	19	5.3	12.0	*	15.8	18.6	*	21.1	23.3	*
Transient Cerebral Ischemia	85	3.5	1.8	*	8.2	3.7	*	8.2	5.7	*
Stroke	113	11.5	19.8	4.9	22.1	26.9	4.6	30.1	31.6	4.4
Hip Fracture	14	14.3	8.1	*	35.7	14.6	*	50.0	19.0	*
Sepsis	20	30.0	27.5	*	50.0	40.8	*	50.0	48.6	*
PROCEDURES:										
Angioplasty	43	7.0	2.9	*	7.0	4.0	*	7.0	5.3	*
Coronary Artery Bypass Graft	158	4.4	5.6	2.1	9.5	7.7	2.4	10.8	9.0	2.6
Initial Pacemaker Insertion	13	0.0	3.1	*	0.0	6.3	*	0.0	9.8	*
Carotid Endarterectomy	43	0.0	1.6	*	0.0	3.1	*	0.0	4.5	*
Hip Replacement/Reconstruction	25	0.0	1.5	*	4.0	2.7	*	4.0	3.6	*
Open Reduction of Hip Fracture	5	20.0	8.4	*	60.0	14.3	*	60.0	18.0	*
Prostatectomy	141	1.4	0.9	0.9	1.4	2.2	1.5	3.5	3.7	1.6
Cholecystectomy	41	0.0	4.2	*	4.9	8.7	*	12.2	12.3	*
Hysterectomy	10	0.0	0.2	*	0.0	0.5	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,622	9.2	8.4	0.5	16.2	13.9	1.0	20.4	18.1	0.9
CONDITIONS:										
Acute Myocardial Infarction	87	24.1	23.8	4.9	26.4	27.4	5.6	28.7	30.8	6.3
Congestive Heart Failure	124	8.1	13.0	4.5	16.9	20.8	4.5	23.4	27.5	4.7
Pneumonia/Influenza	46	26.1	17.1	*	30.4	24.2	*	37.0	29.5	*
Chronic Obstructive Pulmonary Disease	21	23.8	12.0	*	42.9	20.9	*	42.9	27.2	*
Transient Cerebral Ischemia	93	4.3	1.6	2.6	5.4	3.2	3.1	5.4	4.9	3.7
Stroke	78	10.3	18.0	5.9	24.4	24.6	7.4	29.5	28.8	5.3
Hip Fracture	18	5.6	5.4	*	22.2	10.2	*	33.3	13.6	*
Sepsis	24	25.0	22.0	*	45.8	32.0	*	58.3	39.3	*
PROCEDURES:										
Angioplasty	49	6.1	4.0	*	6.1	5.0	*	6.1	6.1	*
Coronary Artery Bypass Graft	116	5.2	5.4	2.1	6.9	7.8	2.5	10.3	9.1	2.7
Initial Pacemaker Insertion	15	0.0	2.3	*	6.7	5.5	*	6.7	9.0	*
Carotid Endarterectomy	34	2.9	1.4	*	2.9	2.8	*	2.9	4.1	*
Hip Replacement/Reconstruction	25	4.0	3.2	*	4.0	5.9	*	8.0	7.4	*
Open Reduction of Hip Fracture	5	0.0	5.3	*	0.0	10.7	*	40.0	14.5	*
Prostatectomy	125	0.0	1.0	1.2	0.0	2.4	2.4	1.6	4.0	2.6
Cholecystectomy	27	3.7	4.5	*	14.8	9.5	*	14.8	13.7	*
Hysterectomy	16	0.0	0.7	*	0.0	1.4	*	0.0	2.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

Harper Hospital
A Division of Harper-Grace Hospitals

Harper Hospital
3990 John R
Detroit, Michigan 48201

Medicare provider #230104

January 14, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Mrs. Kappert:

Please find enclosed a brief statement regarding Harper Hospital that we would like you to include when you release your mortality data to the public.

We have also included a page with corrected hospital characteristics for Harper.

Thank you.

Sincerely,

Leigh O. Sullivan
Manager, Public Relations

Member of The Detroit Medical Center, the Academic Health Center of Wayne State University

Harper Hospital
A Division of Harper-Grace Hospitals

Hospital Medicare Provider #230104

Harper Hospital
3990 John R
Detroit, Michigan 48201

HEALTH CARE FINANCING ADMINISTRATION

MORTALITY DATA RESPONSE

Harper Hospital is a university affiliated teaching hospital located in Detroit. Harper Hospital has an outstanding reputation as a provider of adult tertiary medical care and specializes in the treatment of cancer and heart disease. Located in downtown Detroit, Harper serves a patient population from both the inner city and the metropolitan Detroit area. Our patients reflect the socio-economic conditions of their geographic locations.

Regarding the 1989 mortality figures from HCFA, our numbers fall within the acceptable range as determined by the data, and in many cases our numbers fare better than the predicted mortality figures provided in the study.

We are highly committed to our ongoing quality assurance programs and that commitment is translated by each of our staff members in their daily work of providing quality patient care. Our quality assurance measures are constantly being monitored and updated to enable us to maintain our high standards of patient care.

Although this data is reviewed for quality assurance purposes, we do not feel that mortality statistics are the only true measurement of quality medical care. Mortality is only one of the many components that should be looked at when evaluating quality within a facility.

Member of The Detroit Medical Center, the Academic Health Center of Wayne State University

HAYES GREEN BEACH MEMORIAL HOSPITAL

321 Harris Street
Charlotte, MI 48813

Medicare Provider Number: 230006

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	337	11.3	9.8	2.2	15.7	14.6	3.3	21.1	18.4	4.1
CONDITIONS:										
Acute Myocardial Infarction	14	50.0	27.0	*	50.0	30.2	*	50.0	34.0	*
Congestive Heart Failure	23	17.4	15.9	*	21.7	24.0	*	39.1	30.6	*
Pneumonia/Influenza	39	12.8	14.9	*	17.9	20.8	*	28.2	25.3	*
Chronic Obstructive Pulmonary Disease	5	0.0	3.7	*	0.0	6.7	*	0.0	9.4	*
Transient Cerebral Ischemia	2	0.0	1.6	*	0.0	3.3	*	0.0	5.2	*
Stroke	4	25.0	28.8	*	25.0	37.4	*	50.0	43.0	*
Hip Fracture	10	20.0	8.1	*	20.0	14.5	*	20.0	18.5	*
Sepsis	9	33.3	32.9	*	44.4	39.4	*	44.4	46.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	50.0	7.4	*	50.0	14.6	*	50.0	19.6	*
Open Reduction of Hip Fracture	7	14.3	7.7	*	14.3	14.1	*	14.3	18.2	*
Prostatectomy	4	0.0	1.1	*	0.0	2.8	*	0.0	5.1	*
Cholecystectomy	2	0.0	0.4	*	0.0	0.7	*	0.0	0.9	*
Hysterectomy	1	0.0	0.4	*	0.0	0.6	*	0.0	0.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	46
Occupancy Rate	37
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	19
Percent of Physicians Board Certified Specialists	89
Medical Residents/Interns	0
Registered Nurses	27
Licensed Practical Nurses	9

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

HAYES GREEN BEACH MEMORIAL HOSPITAL

Medicare Provider Number: 230006

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	316	12.0	10.1	2.4	18.4	14.4	3.9	22.5	18.0	4.6
CONDITIONS:										
Acute Myocardial Infarction	14	21.4	31.2	*	28.6	34.5	*	42.9	38.3	*
Congestive Heart Failure	20	15.0	17.6	*	25.0	26.5	*	25.0	33.8	*
Pneumonia/Influenza	17	17.6	20.3	*	29.4	27.1	*	35.3	32.2	*
Chronic Obstructive Pulmonary Disease	3	0.0	8.3	*	0.0	13.8	*	0.0	18.7	*
Transient Cerebral Ischemia	5	0.0	1.3	*	20.0	3.1	*	20.0	5.1	*
Stroke	6	50.0	19.3	*	66.7	27.1	*	66.7	32.0	*
Hip Fracture	10	0.0	6.9	*	0.0	12.7	*	20.0	16.3	*
Sepsis	11	27.3	34.5	*	27.3	40.3	*	45.5	46.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	0.0	7.1	*	0.0	13.4	*	0.0	17.2	*
Open Reduction of Hip Fracture	7	0.0	5.7	*	0.0	11.1	*	28.6	14.6	*
Prostatectomy	9	0.0	0.7	*	0.0	1.7	*	0.0	2.9	*
Cholecystectomy	6	0.0	1.7	*	0.0	3.4	*	0.0	4.5	*
Hysterectomy	4	0.0	0.7	*	0.0	1.3	*	0.0	1.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	311	9.0	10.4	2.2	15.8	15.1	2.1	19.9	19.0	2.4
CONDITIONS:										
Acute Myocardial Infarction	6	33.3	23.8	*	33.3	26.8	*	33.3	30.6	*
Congestive Heart Failure	22	9.1	16.5	*	13.6	25.0	*	27.3	31.9	*
Pneumonia/Influenza	16	0.0	15.4	*	6.3	20.9	*	12.5	25.4	*
Chronic Obstructive Pulmonary Disease	4	0.0	7.4	*	50.0	14.5	*	50.0	21.0	*
Transient Cerebral Ischemia	13	7.7	1.8	*	7.7	4.0	*	7.7	6.3	*
Stroke	11	18.2	21.3	*	36.4	29.0	*	36.4	34.3	*
Hip Fracture	7	0.0	6.8	*	14.3	12.7	*	14.3	16.6	*
Sepsis	16	31.3	29.9	*	37.5	38.1	*	50.0	44.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	4.1	*	0.0	8.3	*	0.0	11.8	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	0.0	8.0	*	0.0	15.2	*	0.0	19.6	*
Open Reduction of Hip Fracture	3	0.0	5.3	*	33.3	10.5	*	33.3	14.3	*
Prostatectomy	9	0.0	1.4	*	0.0	3.4	*	0.0	5.7	*
Cholecystectomy	7	0.0	1.9	*	0.0	3.7	*	14.3	4.9	*
Hysterectomy	1	0.0	0.1	*	0.0	0.2	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HGB

HAYES GREEN BEACH MEMORIAL HOSPITAL

STEPHEN W. MAPES, MHA
President

321 EAST HARRIS STREET, CHARLOTTE, MICHIGAN 48813 PHONE: (517) 543-1050

January 15, 1991

Ms. Sandra Kappert
Health Care Financing Administration
Health Standards and Quality Bureau
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, MD 21207

Re: 1989 Medicare Mortality Data

Dear Mrs. Kappert:

Enclosed please find two (2) pages with respect to the mortality data to be released in the spring of 1991. The first page summarizes the data and the second page identifies errors in your report which should not be published but are for your information and correction.

Should you have any questions regarding the errors and data, please contact Mary Ann Smith, Director of Medical Records at Hayes Green Beach Hospital.

Please include our comments on page 1 in your mortality data release.

Respectfully submitted,

HAYES GREEN BEACH MEMORIAL HOSPITAL

Stephen W. Mapes
President

SWM/pv

Enclosures

cc: Mary Ann Smith, Medical Records Director

Hospital ID#: 230006 355.2

HGB

HAYES GREEN BEACH MEMORIAL HOSPITAL

321 EAST HARRIS STREET, CHARLOTTE, MICHIGAN 48813 PHONE: (517) 543-1050

1989 HCFA MORTALITY DATA

1. 51 patients expired either here or within 30 days of discharge.
   - a. 32 of the 51 patients expired at Hayes Green Beach Memorial Hospital.
   - b. 19* of the 51 patients expired within 30 days of discharge from the hospital.
   - c. Disposition of the 19 patients expiring within 30 days of discharge:

     Home: 7
     ECMCF: 6 (skilled and basic)
     Eaton Manor: 3 (basic)
     Provincial House: 1 (skilled and basic)
     Other Hospitals: 2

   - d. 22 of the 51 patients had a "NO CODE" order while in the hospital.
   - e.

AGE GROUPING	
50-60	2
61-69	5
70-75	8
76-82	13
83-90	18
90-100	5

AVERAGE AGE: 81.8 years

2. 18* patient expired within 90 days of discharge from Hayes Green Beach Memorial Hospital.

3. 11* patients expired within 180 days of discharge from Hayes Green Beach Memorial Hospital.

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* This facility is unable to verify data for patients who expired after being discharged from the hospital.

HELEN NEWBERRY JOY HOSPITAL

502 W Harrie Street
Newberry, MI 49868

Medicare Provider Number: 230191

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	204	9.8	9.8	2.5	13.2	15.1	3.5	16.7	19.3	3.9
CONDITIONS:										
Acute Myocardial Infarction	10	20.0	24.7	*	20.0	28.0	*	30.0	31.2	*
Congestive Heart Failure	15	6.7	16.4	*	6.7	26.1	*	20.0	33.9	*
Pneumonia/Influenza	16	6.3	17.2	*	6.3	23.0	*	12.5	27.7	*
Chronic Obstructive Pulmonary Disease	7	14.3	9.3	*	14.3	15.9	*	14.3	21.7	*
Transient Cerebral Ischemia	8	0.0	2.2	*	0.0	5.0	*	0.0	8.1	*
Stroke	9	44.4	23.9	*	55.6	32.9	*	55.6	38.1	*
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	69
Occupancy Rate	58
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	3
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	0
Registered Nurses	9
Licensed Practical Nurses	6

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

HELEN NEWBERRY JOY HOSPITAL

Medicare Provider Number: 230191

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	228	7.9	9.5	3.2	11.4	14.4	3.9	13.6	18.1	4.5
CONDITIONS:										
Acute Myocardial Infarction	4	0.0	17.6	*	0.0	20.0	*	0.0	22.9	*
Congestive Heart Failure	17	23.5	15.5	*	29.4	24.0	*	29.4	30.8	*
Pneumonia/Influenza	17	17.6	21.9	*	17.6	29.8	*	23.5	35.0	*
Chronic Obstructive Pulmonary Disease	9	11.1	9.0	*	22.2	15.7	*	22.2	20.8	*
Transient Cerebral Ischemia	8	0.0	3.6	*	0.0	8.4	*	0.0	13.3	*
Stroke	4	0.0	16.9	*	0.0	24.3	*	25.0	29.0	*
Hip Fracture	1	0.0	6.8	*	0.0	13.3	*	0.0	19.4	*
Sepsis	1	0.0	26.7	*	0.0	31.2	*	0.0	36.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	204	7.4	9.6	2.3	10.8	14.5	3.2	12.7	18.6	4.0
CONDITIONS:										
Acute Myocardial Infarction	7	14.3	19.9	*	14.3	22.6	*	14.3	25.5	*
Congestive Heart Failure	18	11.1	15.8	*	16.7	23.9	*	22.2	30.7	*
Pneumonia/Influenza	17	5.9	16.8	*	11.8	22.6	*	11.8	27.5	*
Chronic Obstructive Pulmonary Disease	6	16.7	7.1	*	33.3	14.0	*	50.0	19.6	*
Transient Cerebral Ischemia	6	0.0	2.6	*	0.0	5.5	*	0.0	8.8	*
Stroke	9	11.1	19.4	*	11.1	26.5	*	11.1	31.0	*
Hip Fracture	1	0.0	3.5	*	0.0	6.0	*	0.0	7.9	*
Sepsis	2	50.0	56.0	*	50.0	69.7	*	50.0	77.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HENRY FORD HOSPITAL

2799 W Grand Blvd
Detroit, MI 48202

Medicare Provider Number: 230053

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	6,523	9.7	9.8	0.4	15.8	15.3	0.6	19.2	19.5	0.6
CONDITIONS:										
Acute Myocardial Infarction	132	21.2	24.2	5.2	25.8	27.7	4.5	29.5	31.1	4.2
Congestive Heart Failure	409	13.2	14.5	2.4	23.5	22.3	2.4	28.9	28.9	2.4
Pneumonia/Influenza	180	18.3	17.9	3.1	26.1	24.4	3.5	29.4	29.3	3.5
Chronic Obstructive Pulmonary Disease	65	12.3	15.6	9.1	18.5	24.0	11.0	23.1	30.9	11.3
Transient Cerebral Ischemia	98	0.0	1.7	2.2	3.1	3.7	2.0	4.1	5.8	3.0
Stroke	289	14.5	17.8	3.1	21.5	24.2	3.2	27.0	28.3	2.7
Hip Fracture	84	7.1	6.3	3.9	13.1	11.1	4.5	15.5	14.3	5.5
Sepsis	74	35.1	30.5	7.2	45.9	40.4	9.1	50.0	47.2	9.6
PROCEDURES:										
Angioplasty	58	10.3	4.0	4.0	10.3	4.8	3.7	10.3	5.9	4.0
Coronary Artery Bypass Graft	73	4.1	5.0	2.7	5.5	7.1	3.3	5.5	8.5	3.9
Initial Pacemaker Insertion	32	6.3	4.3	*	9.4	7.2	*	9.4	9.7	*
Carotid Endarterectomy	34	0.0	1.8	*	2.9	3.5	*	2.9	5.1	*
Hip Replacement/Reconstruction	92	3.3	2.4	1.8	5.4	4.5	2.6	6.5	6.1	4.4
Open Reduction of Hip Fracture	41	2.4	5.7	*	4.9	10.4	*	4.9	13.5	*
Prostatectomy	187	0.0	0.9	0.9	0.5	1.9	1.3	1.1	3.1	1.7
Cholecystectomy	75	1.3	3.4	2.7	4.0	6.2	3.4	4.0	8.2	4.5
Hysterectomy	42	0.0	0.8	*	2.4	1.8	*	2.4	2.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	829
Occupancy Rate	82
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	705
Percent of Physicians Board Certified Specialists	71
Medical Residents/Interns	495
Registered Nurses	1,417
Licensed Practical Nurses	240

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	Yes
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	Yes

**** Not used in calculating hospital mortality rates.**

HENRY FORD HOSPITAL

Medicare Provider Number: 230053

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	6,547	8.9	9.9	0.7	15.1	15.6	0.6	19.3	19.8	0.6
CONDITIONS:										
Acute Myocardial Infarction	126	19.8	27.0	5.6	22.2	30.2	5.8	24.6	33.7	6.3
Congestive Heart Failure	342	10.5	15.7	2.4	23.7	23.9	2.6	30.4	30.6	2.5
Pneumonia/Influenza	166	9.6	16.8	4.7	20.5	23.0	4.8	24.1	27.7	4.0
Chronic Obstructive Pulmonary Disease	96	9.4	11.2	4.3	17.7	18.0	3.9	24.0	23.5	4.5
Transient Cerebral Ischemia	141	1.4	1.8	1.2	2.8	3.8	1.8	5.7	6.0	2.1
Stroke	227	17.2	19.5	4.2	23.8	26.4	4.6	29.1	30.9	4.2
Hip Fracture	100	3.0	7.2	4.4	16.0	13.0	3.6	22.0	16.7	4.7
Sepsis	75	32.0	27.3	6.7	36.0	36.6	6.7	44.0	43.0	7.1
PROCEDURES:										
Angioplasty	52	1.9	3.7	3.2	1.9	5.0	3.6	1.9	6.3	4.4
Coronary Artery Bypass Graft	68	2.9	7.7	4.4	4.4	10.3	5.6	4.4	11.8	6.0
Initial Pacemaker Insertion	37	8.1	4.7	*	8.1	8.2	*	16.2	11.7	*
Carotid Endarterectomy	39	0.0	1.8	*	0.0	3.5	*	0.0	5.0	*
Hip Replacement/Reconstruction	89	3.4	3.4	2.3	7.9	6.5	3.4	12.4	8.7	4.7
Open Reduction of Hip Fracture	46	4.3	6.5	*	23.9	12.2	*	28.3	15.8	*
Prostatectomy	208	0.5	0.7	0.8	3.4	1.8	1.6	4.3	3.0	2.1
Cholecystectomy	96	4.2	3.7	2.1	5.2	7.0	3.4	5.2	9.2	4.7
Hysterectomy	25	0.0	0.8	*	0.0	1.7	*	0.0	2.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	6,045	8.9	10.0	0.5	14.8	15.5	0.6	18.8	19.7	0.6
CONDITIONS:										
Acute Myocardial Infarction	144	21.5	27.0	4.8	25.0	30.5	4.7	28.5	33.9	5.2
Congestive Heart Failure	297	11.1	17.5	3.3	18.5	25.9	3.6	26.9	32.7	3.4
Pneumonia/Influenza	123	13.0	16.1	3.5	21.1	21.8	4.3	32.5	26.2	4.8
Chronic Obstructive Pulmonary Disease	81	12.3	14.4	5.2	19.8	22.6	6.4	21.0	28.4	7.4
Transient Cerebral Ischemia	93	3.2	1.8	1.5	4.3	3.6	2.0	4.3	5.5	2.5
Stroke	242	14.5	20.5	3.5	18.2	27.4	4.3	22.3	31.7	4.5
Hip Fracture	84	4.8	7.4	4.4	10.7	12.9	4.9	15.5	16.6	4.2
Sepsis	78	32.1	32.3	6.7	47.4	41.8	10.0	51.3	48.3	10.4
PROCEDURES:										
Angioplasty	34	5.9	3.4	*	8.8	4.4	*	11.8	5.6	*
Coronary Artery Bypass Graft	61	0.0	7.1	*	0.0	9.5	*	0.0	10.8	*
Initial Pacemaker Insertion	36	5.6	3.7	*	8.3	7.4	*	8.3	10.7	*
Carotid Endarterectomy	47	0.0	1.8	*	0.0	3.5	*	0.0	5.0	*
Hip Replacement/Reconstruction	61	1.6	2.5	2.8	3.3	4.6	3.7	4.9	6.0	3.7
Open Reduction of Hip Fracture	41	2.4	6.1	*	4.9	11.3	*	4.9	14.8	*
Prostatectomy	246	0.0	0.8	1.4	2.0	1.9	1.5	4.1	3.2	2.0
Cholecystectomy	74	2.7	3.4	2.4	6.8	6.4	3.0	9.5	8.6	3.4
Hysterectomy	44	4.5	1.4	*	6.8	2.9	*	6.8	4.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

359.1

Henry Ford Hospital

2799 West Grand Boulevard
Detroit, Michigan 48202

January 11, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

RE: Henry Ford Hospital 1990 Medicare Hospital Mortality Data

Dear Mrs. Sandra Kappert:

Although it is understood that the Health Care Financing Administration is continually refining its analytic methodologies and validation techniques, several issues remain of concern. First, it should be noted that several recent studies reported in the literature suggest that mortality data is not a useful measure of quality because quality issues account for little of the variation in mortality between hospitals (Park, et al. JAMA 1990;864:484-490).

Second, there seems to be a problem with the methodology used to randomly select the patient population. Although none of the mortality rates for Henry Ford Hospital exceed two standard deviations above the expected rates, we chose to review data using 75% confidence limits. This level was used since it is less stringent and will detect borderline cases. Only angioplasty procedures were found to exceed the upper levels of the 75% confidence intervals.

A review of 100% of the angioplasty procedures for this time frame and age group was conducted. In the fiscal year 1989, 154 patients underwent angioplasty. The Medicare random sample included only 58 of these cases (38% sample of all procedures). A total of seven (7) deaths occurred within the 30 day period producing a mortality rate of 4.5% (7/154). The Medicare random sample included six (6) of these seven (7) deaths (86%) resulting in a procedure specific mortality rate of 10.3%. The Medicare sample appears to be skewed in relation to deaths and may not represent a true random sample of our hospital angioplasty experience.

It is important to note that according to Henry Ford Hospital data only three (3) deaths were directly related to the angioplasty experience. The other four deaths were secondary to the patient's disease process. These four patients included one (1) 84-year-old female who was 22 hours into an acute myocardial infarction and died five (5) days after a successful PTCA. The other three (3) patients were 74, 67 and 64 years of age and were all in cardiogenic shock following an acute myocardial infarction and died 2 - 24 days following the procedure. Even though these patients died within 30 days after the procedure, it is not felt that the angioplasty procedure was the cause of death in these four patients.

Hence, analysis of Henry Ford Hospital Medicare cases who underwent angioplasty shows a procedure related mortality of 2% (3/154). The 30 day mortality rate due to any cause in this same Henry Ford Hospital Medicare population is 4.5% (7/154). Henry Ford Hospital feels that these mortality figures are well within the expected rates for this age group.

Henry Ford Hospital plans to analyze the remainder of the HFH 1990 Medicare Mortality data to determine if similar sampling issues exist.

Henry Ford Hospital appreciates the opportunity to review and respond to this data prior to HCFA's public release of this information.

Respectfully,

D. W. Benfer

David W. Benfer
Executive Vice President
Henry Ford Hospital

HERITAGE HOSPITAL

24775 Haig Ave
Taylor, MI 48180

Medicare Provider Number: 230270

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,369	12.1	11.9	0.9	18.7	17.7	1.2	24.0	22.0	1.5
CONDITIONS:										
Acute Myocardial Infarction	51	27.5	27.5	6.4	31.4	30.9	6.5	35.3	34.3	6.8
Congestive Heart Failure	102	11.8	16.0	5.2	23.5	24.4	4.4	31.4	31.4	4.6
Pneumonia/Influenza	63	19.0	19.1	5.0	33.3	25.7	6.3	41.3	30.6	8.0
Chronic Obstructive Pulmonary Disease	22	9.1	19.4	*	22.7	26.9	*	31.8	32.4	*
Transient Cerebral Ischemia	29	3.4	1.3	*	10.3	2.8	*	10.3	4.3	*
Stroke	52	21.2	20.1	10.3	34.6	28.0	8.5	34.6	32.7	6.8
Hip Fracture	30	10.0	7.7	*	16.7	13.8	*	16.7	17.8	*
Sepsis	25	32.0	26.1	*	40.0	33.5	*	48.0	39.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	6	16.7	8.9	*	16.7	11.4	*	16.7	13.4	*
Carotid Endarterectomy	4	0.0	1.6	*	0.0	2.8	*	0.0	4.2	*
Hip Replacement/Reconstruction	14	7.1	6.7	*	14.3	12.9	*	21.4	17.5	*
Open Reduction of Hip Fracture	17	17.6	6.6	*	23.5	12.4	*	23.5	16.2	*
Prostatectomy	48	0.0	0.5	*	2.1	1.2	*	4.2	2.0	*
Cholecystectomy	29	0.0	3.5	*	3.4	6.1	*	6.9	7.9	*
Hysterectomy	2	0.0	0.1	*	0.0	0.2	*	0.0	0.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	271
Occupancy Rate	63
Ownership/Control	Private, For Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	205
Percent of Physicians Board Certified Specialists	61
Medical Residents/Interns	0
Registered Nurses	171
Licensed Practical Nurses	18

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

HERITAGE HOSPITAL

Medicare Provider Number: 230270

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,644	11.8	11.1	0.8	19.2	16.7	1.1	24.7	21.0	1.4
CONDITIONS:										
Acute Myocardial Infarction	44	36.4	27.2	*	40.9	30.8	*	50.0	34.6	*
Congestive Heart Failure	114	23.7	16.3	6.0	36.0	25.1	6.7	41.2	32.2	6.3
Pneumonia/Influenza	94	11.7	18.1	5.4	23.4	24.3	4.5	31.9	29.1	5.0
Chronic Obstructive Pulmonary Disease	41	14.6	12.9	*	17.1	20.3	*	19.5	26.5	*
Transient Cerebral Ischemia	44	4.5	2.3	*	9.1	5.4	*	15.9	8.7	*
Stroke	60	20.0	20.2	6.1	26.7	27.7	8.0	40.0	32.4	7.2
Hip Fracture	26	3.8	6.4	*	11.5	11.6	*	15.4	14.8	*
Sepsis	31	25.8	30.7	*	45.2	39.5	*	48.4	45.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	12	0.0	2.3	*	0.0	4.6	*	0.0	7.0	*
Carotid Endarterectomy	8	12.5	2.6	*	12.5	5.8	*	12.5	8.9	*
Hip Replacement/Reconstruction	13	7.7	4.7	*	15.4	8.9	*	23.1	11.8	*
Open Reduction of Hip Fracture	18	0.0	5.4	*	11.1	10.3	*	11.1	13.7	*
Prostatectomy	65	0.0	0.7	1.5	1.5	1.8	2.4	4.6	2.9	3.4
Cholecystectomy	34	0.0	2.3	*	2.9	4.1	*	2.9	5.4	*
Hysterectomy	6	16.7	2.8	*	16.7	5.4	*	16.7	7.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,592	12.4	11.1	0.9	19.5	16.6	1.2	23.9	20.7	1.3
CONDITIONS:										
Acute Myocardial Infarction	65	35.4	27.0	10.6	40.0	30.2	11.5	43.1	33.6	12.3
Congestive Heart Failure	111	24.3	17.2	6.1	36.0	25.8	7.6	42.3	32.9	7.5
Pneumonia/Influenza	86	22.1	20.9	4.5	36.0	27.8	5.8	41.9	33.0	6.0
Chronic Obstructive Pulmonary Disease	43	9.3	11.2	*	14.0	18.1	*	16.3	23.3	*
Transient Cerebral Ischemia	40	0.0	2.1	*	2.5	4.5	*	5.0	7.1	*
Stroke	69	29.0	20.1	7.9	34.8	27.7	8.7	42.0	32.4	10.3
Hip Fracture	27	14.8	7.1	*	18.5	12.4	*	22.2	16.1	*
Sepsis	16	18.8	31.3	*	37.5	40.6	*	37.5	46.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	9	0.0	3.8	*	0.0	7.4	*	0.0	10.5	*
Carotid Endarterectomy	7	0.0	2.0	*	0.0	3.8	*	0.0	5.6	*
Hip Replacement/Reconstruction	11	36.4	6.3	*	36.4	11.5	*	36.4	14.9	*
Open Reduction of Hip Fracture	12	0.0	5.9	*	0.0	11.1	*	8.3	14.7	*
Prostatectomy	49	0.0	1.2	*	6.1	2.8	*	6.1	4.5	*
Cholecystectomy	36	2.8	2.3	*	2.8	3.8	*	8.3	4.8	*
Hysterectomy	7	0.0	0.1	*	0.0	0.2	*	0.0	0.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HERRICK MEMORIAL HEALTH CARE CENTER

500 E Pottawatamie St
Tecumseh, MI 49286

Medicare Provider Number: 230120

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	334	7.2	9.1	1.9	12.9	13.0	2.1	16.5	16.3	2.1
CONDITIONS:										
Acute Myocardial Infarction	13	46.2	32.2	*	53.8	35.1	*	61.5	38.7	*
Congestive Heart Failure	21	14.3	14.3	*	33.3	20.9	*	47.6	27.2	*
Pneumonia/Influenza	8	0.0	12.1	*	0.0	16.4	*	0.0	19.9	*
Chronic Obstructive Pulmonary Disease	7	0.0	7.5	*	0.0	12.8	*	14.3	17.4	*
Transient Cerebral Ischemia	6	0.0	1.4	*	0.0	3.2	*	0.0	5.1	*
Stroke	19	15.8	21.8	*	21.1	29.4	*	21.1	34.1	*
Hip Fracture	5	20.0	8.6	*	20.0	14.8	*	20.0	18.6	*
Sepsis	2	0.0	25.8	*	0.0	31.9	*	0.0	39.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	8	0.0	2.6	*	0.0	4.5	*	0.0	5.6	*
Open Reduction of Hip Fracture	2	50.0	5.6	*	50.0	9.8	*	50.0	12.6	*
Prostatectomy	11	0.0	0.7	*	0.0	1.9	*	9.1	3.5	*
Cholecystectomy	7	0.0	0.6	*	0.0	1.0	*	0.0	1.4	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	106
Occupancy Rate	51
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	28
Percent of Physicians Board Certified Specialists	46
Medical Residents/Interns	0
Registered Nurses	80
Licensed Practical Nurses	12

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

HERRICK MEMORIAL HEALTH CARE CENTER

Medicare Provider Number: 230120

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	296	8.1	8.5	1.7	11.1	12.1	2.2	14.5	15.3	2.3
CONDITIONS:										
Acute Myocardial Infarction	16	31.3	30.4	*	31.3	34.1	*	31.3	37.7	*
Congestive Heart Failure	18	11.1	17.0	*	22.2	23.9	*	33.3	30.4	*
Pneumonia/Influenza	15	33.3	13.3	*	40.0	18.0	*	46.7	22.0	*
Chronic Obstructive Pulmonary Disease	5	20.0	14.2	*	60.0	22.5	*	60.0	29.2	*
Transient Cerebral Ischemia	4	0.0	1.3	*	0.0	3.1	*	0.0	5.0	*
Stroke	14	7.1	19.2	*	7.1	26.0	*	7.1	30.5	*
Hip Fracture	5	0.0	7.7	*	0.0	14.3	*	20.0	18.5	*
Sepsis	2	0.0	28.5	*	0.0	36.1	*	0.0	42.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	0.2	*	0.0	0.5	*	0.0	0.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	0.4	*	0.0	0.7	*	0.0	1.0	*
Open Reduction of Hip Fracture	4	0.0	6.4	*	0.0	12.6	*	25.0	16.9	*
Prostatectomy	18	0.0	0.8	*	0.0	2.0	*	0.0	3.6	*
Cholecystectomy	6	0.0	0.8	*	0.0	1.5	*	0.0	1.9	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	287	7.0	8.0	1.8	11.1	12.1	2.4	13.2	15.5	3.2
CONDITIONS:										
Acute Myocardial Infarction	4	50.0	38.5	*	50.0	42.6	*	50.0	46.8	*
Congestive Heart Failure	17	17.6	20.5	*	23.5	30.0	*	23.5	38.0	*
Pneumonia/Influenza	11	18.2	12.1	*	27.3	16.8	*	27.3	20.7	*
Chronic Obstructive Pulmonary Disease	11	0.0	7.2	*	0.0	12.3	*	9.1	16.4	*
Transient Cerebral Ischemia	2	0.0	1.3	*	0.0	2.9	*	0.0	4.6	*
Stroke	16	25.0	20.7	*	31.3	28.1	*	31.3	32.8	*
Hip Fracture	7	0.0	5.7	*	0.0	10.4	*	0.0	13.5	*
Sepsis	3	0.0	34.0	*	0.0	41.8	*	33.3	48.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	2.4	*	0.0	4.8	*	0.0	6.6	*
Open Reduction of Hip Fracture	6	0.0	5.1	*	0.0	9.6	*	0.0	12.8	*
Prostatectomy	5	0.0	0.6	*	0.0	1.6	*	0.0	2.7	*
Cholecystectomy	7	0.0	1.0	*	0.0	1.8	*	0.0	2.4	*
Hysterectomy	1	0.0	0.1	*	0.0	0.3	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HILLS AND DALE GENERAL HOSPITAL

4675 Hill St
Cass City, MI 48726

Medicare Provider Number: 230188

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	255	8.6	9.1	2.2	13.3	13.6	2.2	15.3	17.4	3.0
CONDITIONS:										
Acute Myocardial Infarction	10	20.0	26.0	*	30.0	28.9	*	30.0	32.7	*
Congestive Heart Failure	14	21.4	10.9	*	35.7	17.5	*	35.7	23.5	*
Pneumonia/Influenza	68	8.8	13.0	5.2	14.7	18.1	5.2	14.7	22.5	6.9
Chronic Obstructive Pulmonary Disease	2	0.0	2.8	*	0.0	5.3	*	0.0	7.8	*
Transient Cerebral Ischemia	4	0.0	1.2	*	0.0	2.8	*	0.0	4.5	*
Stroke	8	37.5	14.9	*	37.5	22.3	*	37.5	27.0	*
Hip Fracture	0									
Sepsis	3	66.7	25.6	*	66.7	30.4	*	66.7	36.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	10	0.0	0.3	*	0.0	0.6	*	0.0	1.0	*
Cholecystectomy	9	11.1	2.4	*	11.1	3.9	*	11.1	4.8	*
Hysterectomy	1	0.0	0.1	*	0.0	0.2	*	0.0	0.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	65
Occupancy Rate	29
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	6
Percent of Physicians Board Certified Specialists	17
Medical Residents/Interns	0
Registered Nurses	18
Licensed Practical Nurses	14

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

HILLS AND DALE GENERAL HOSPITAL

Medicare Provider Number: 230188

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	243	9.5	9.7	1.9	15.2	14.4	3.0	17.7	18.3	2.5
CONDITIONS:										
Acute Myocardial Infarction	9	33.3	30.0	*	66.7	32.7	*	66.7	36.1	*
Congestive Heart Failure	8	25.0	17.7	*	25.0	26.7	*	25.0	33.8	*
Pneumonia/Influenza	75	6.7	13.2	5.4	8.0	18.2	6.4	9.3	22.3	7.4
Chronic Obstructive Pulmonary Disease	5	20.0	9.6	*	40.0	18.7	*	40.0	26.1	*
Transient Cerebral Ischemia	4	0.0	2.1	*	25.0	4.5	*	25.0	7.2	*
Stroke	5	40.0	21.6	*	40.0	30.6	*	40.0	36.4	*
Hip Fracture	0									
Sepsis	2	0.0	23.4	*	0.0	26.8	*	0.0	31.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	7	0.0	0.4	*	0.0	0.9	*	0.0	1.5	*
Cholecystectomy	6	0.0	1.3	*	0.0	2.7	*	0.0	4.1	*
Hysterectomy	1	0.0	0.1	*	0.0	0.2	*	0.0	0.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	271	9.2	8.9	2.0	11.1	13.0	2.9	14.8	16.6	3.6
CONDITIONS:										
Acute Myocardial Infarction	12	25.0	26.6	*	25.0	30.8	*	25.0	34.7	*
Congestive Heart Failure	17	5.9	14.7	*	5.9	23.1	*	23.5	29.9	*
Pneumonia/Influenza	64	14.1	14.0	4.5	17.2	19.5	5.3	20.3	24.3	7.3
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	8	12.5	1.7	*	12.5	3.9	*	25.0	6.3	*
Stroke	2	50.0	18.8	*	50.0	28.5	*	50.0	34.2	*
Hip Fracture	0									
Sepsis	4	25.0	46.3	*	25.0	55.5	*	25.0	64.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	11	18.2	0.7	*	18.2	1.7	*	18.2	2.8	*
Cholecystectomy	2	0.0	1.5	*	50.0	2.6	*	50.0	3.5	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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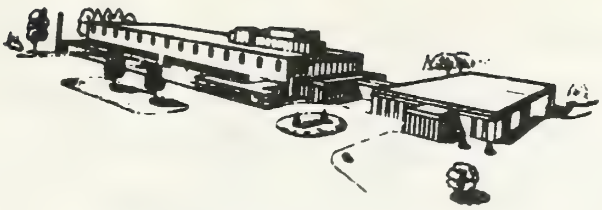

HILLS & DALES GENERAL HOSPITAL
Accredited by Joint Commission on Accreditation of Hospitals
4675 HILL STREET • CASS CITY, MICHIGAN 48726 PHONE (517) 872-2121

January 10, 1991

Attn: Mrs. Sandra Kappert
Health Standards and Quality Bureau
Health Care Financing Administration
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore MD 20207

Dear Mrs. Kappert:

The mortality data for Hills and Dales General Hospital was received and reviewed.

The concern we have with the data is the cause of death may not be due to the condition for which the patient was admitted. Point of reference - three patients had a final diagnosis of sepsis. Two of these patients expired but the cause of death in one case appeared to be by heart attack and not sepsis.

All mortality cases are reviewed by a committee of the medical staff as part of the medial staff quality assurance program. In the past year all mortality cases were reviewed by an outside medical review organization and in the majority of cases the care was felt to be appropriate.

Sincerely,

Janet L Sticken RN

JANET STICKEN, RN
Assistant Administrator
Medical Services

JS:jt

HILLSDALE COMMUNITY HEALTH CENTER

168 S Howell Street
Hillsdale, MI 49242

Medicare Provider Number: 230037

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	544	7.4	7.0	1.2	10.3	10.8	1.7	12.5	14.2	1.8
CONDITIONS:										
Acute Myocardial Infarction	20	35.0	30.0	*	45.0	34.1	*	45.0	38.6	*
Congestive Heart Failure	28	3.6	13.3	*	10.7	21.8	*	14.3	29.0	*
Pneumonia/Influenza	31	6.5	13.8	*	6.5	18.7	*	12.9	22.8	*
Chronic Obstructive Pulmonary Disease	8	25.0	4.6	*	25.0	9.0	*	37.5	13.4	*
Transient Cerebral Ischemia	18	0.0	1.7	*	0.0	3.9	*	0.0	6.3	*
Stroke	15	6.7	15.8	*	6.7	21.5	*	6.7	25.9	*
Hip Fracture	7	14.3	6.4	*	14.3	11.7	*	14.3	15.2	*
Sepsis	3	0.0	22.3	*	0.0	26.5	*	0.0	31.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	6	16.7	5.6	*	16.7	10.7	*	16.7	14.2	*
Prostatectomy	0									
Cholecystectomy	13	0.0	1.1	*	0.0	1.8	*	7.7	2.4	*
Hysterectomy	3	0.0	0.9	*	0.0	2.0	*	0.0	3.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	68
Occupancy Rate	41
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	21
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	0
Registered Nurses	42
Licensed Practical Nurses	29

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

HILLSDALE COMMUNITY HEALTH CENTER

Medicare Provider Number: 230037

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	469	9.6	7.7	1.5	13.6	11.7	1.9	16.2	15.1	1.7
CONDITIONS:										
Acute Myocardial Infarction	14	21.4	27.9	*	35.7	31.8	*	35.7	35.9	*
Congestive Heart Failure	20	15.0	12.4	*	30.0	18.8	*	30.0	24.6	*
Pneumonia/Influenza	32	18.8	12.7	*	21.9	17.4	*	21.9	21.5	*
Chronic Obstructive Pulmonary Disease	8	25.0	6.8	*	25.0	12.1	*	25.0	16.9	*
Transient Cerebral Ischemia	13	0.0	1.3	*	0.0	2.9	*	0.0	4.5	*
Stroke	20	15.0	19.7	*	20.0	25.6	*	25.0	30.1	*
Hip Fracture	6	0.0	6.7	*	16.7	12.1	*	16.7	15.6	*
Sepsis	7	42.9	32.7	*	42.9	40.5	*	42.9	46.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	4	0.0	6.1	*	25.0	11.5	*	25.0	15.1	*
Prostatectomy	0									
Cholecystectomy	19	5.3	4.0	*	21.1	7.7	*	26.3	10.1	*
Hysterectomy	5	20.0	11.5	*	20.0	13.0	*	20.0	14.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	436	8.9	8.6	1.4	12.8	12.7	2.0	14.9	16.2	2.2
CONDITIONS:										
Acute Myocardial Infarction	14	28.6	31.0	*	35.7	34.6	*	35.7	38.5	*
Congestive Heart Failure	17	11.8	14.4	*	29.4	22.7	*	29.4	29.6	*
Pneumonia/Influenza	37	13.5	13.8	*	13.5	18.9	*	21.6	23.1	*
Chronic Obstructive Pulmonary Disease	10	0.0	7.3	*	20.0	13.0	*	20.0	17.4	*
Transient Cerebral Ischemia	9	0.0	1.9	*	0.0	4.0	*	11.1	6.4	*
Stroke	25	28.0	22.1	*	28.0	28.8	*	28.0	33.5	*
Hip Fracture	4	0.0	5.7	*	25.0	10.9	*	25.0	14.5	*
Sepsis	2	0.0	26.4	*	0.0	35.1	*	0.0	40.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	4	0.0	4.8	*	25.0	9.9	*	25.0	13.5	*
Prostatectomy	0									
Cholecystectomy	17	0.0	2.2	*	0.0	4.0	*	0.0	5.2	*
Hysterectomy	8	0.0	0.3	*	0.0	0.6	*	0.0	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOLLAND COMMUNITY HOSPITAL

602 Michigan Ave
Holland, MI 49423

Medicare Provider Number: 230072

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,700	6.2	8.0	0.9	9.9	12.3	1.1	13.4	15.8	1.1
CONDITIONS:										
Acute Myocardial Infarction	55	21.8	26.5	8.3	25.5	30.1	7.5	32.7	33.6	6.4
Congestive Heart Failure	74	5.4	14.1	5.8	8.1	21.5	7.3	18.9	27.9	6.8
Pneumonia/Influenza	73	11.0	16.7	7.3	17.8	22.7	5.9	23.3	27.5	6.0
Chronic Obstructive Pulmonary Disease	21	4.8	11.6	*	14.3	18.4	*	28.6	24.0	*
Transient Cerebral Ischemia	25	0.0	2.0	*	4.0	4.3	*	4.0	6.8	*
Stroke	48	12.5	20.3	*	22.9	27.0	*	27.1	31.3	*
Hip Fracture	44	2.3	8.0	*	13.6	14.1	*	18.2	18.0	*
Sepsis	26	15.4	29.5	*	23.1	36.1	*	23.1	42.4	*
PROCEDURES:										
Angioplasty	1	0.0	8.6	*	0.0	9.3	*	0.0	10.4	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	23	0.0	3.1	*	4.3	6.2	*	4.3	9.1	*
Carotid Endarterectomy	4	0.0	1.3	*	0.0	2.4	*	0.0	3.5	*
Hip Replacement/Reconstruction	42	2.4	3.0	*	4.8	5.5	*	4.8	7.2	*
Open Reduction of Hip Fracture	22	0.0	6.2	*	9.1	11.7	*	13.6	15.3	*
Prostatectomy	112	1.8	0.9	1.6	2.7	2.2	2.0	5.4	3.8	2.3
Cholecystectomy	43	2.3	2.6	*	4.7	4.8	*	4.7	6.5	*
Hysterectomy	13	0.0	1.3	*	0.0	2.5	*	0.0	3.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	178
Occupancy Rate	64
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	105
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	0
Registered Nurses	166
Licensed Practical Nurses	59

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

HOLLAND COMMUNITY HOSPITAL

Medicare Provider Number: 230072

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,535	8.0	9.0	1.1	12.9	13.7	1.3	15.6	17.3	1.6
CONDITIONS:										
Acute Myocardial Infarction	52	25.0	30.6	9.3	28.8	34.3	9.3	28.8	38.1	10.4
Congestive Heart Failure	59	18.6	18.8	6.0	32.2	28.0	7.7	33.9	35.3	6.7
Pneumonia/Influenza	71	8.5	17.7	7.1	14.1	24.0	7.5	18.3	28.8	8.0
Chronic Obstructive Pulmonary Disease	11	9.1	7.2	*	18.2	13.8	*	45.5	20.0	*
Transient Cerebral Ischemia	16	6.3	1.9	*	12.5	4.1	*	12.5	6.4	*
Stroke	70	30.0	22.7	7.9	38.6	30.6	8.1	41.4	35.6	7.0
Hip Fracture	44	9.1	7.9	*	18.2	14.0	*	20.5	17.7	*
Sepsis	17	5.9	27.0	*	17.6	34.1	*	23.5	39.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	6	0.0	3.6	*	0.0	6.5	*	0.0	9.2	*
Carotid Endarterectomy	5	20.0	1.5	*	20.0	3.0	*	20.0	4.4	*
Hip Replacement/Reconstruction	28	0.0	2.8	*	3.6	5.6	*	3.6	7.6	*
Open Reduction of Hip Fracture	28	10.7	7.3	*	17.9	13.4	*	21.4	17.1	*
Prostatectomy	76	0.0	1.1	1.9	5.3	2.6	2.4	6.6	4.3	3.6
Cholecystectomy	38	0.0	3.6	*	5.3	7.1	*	5.3	9.5	*
Hysterectomy	20	0.0	0.8	*	0.0	1.8	*	5.0	2.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,409	8.7	8.7	0.8	13.1	13.4	1.1	16.3	17.1	1.3
CONDITIONS:										
Acute Myocardial Infarction	37	21.6	24.7	*	24.3	28.0	*	27.0	31.3	*
Congestive Heart Failure	77	24.7	17.3	7.4	36.4	25.6	8.7	40.3	32.6	9.5
Pneumonia/Influenza	67	14.9	18.1	6.4	19.4	24.2	6.7	20.9	29.2	8.7
Chronic Obstructive Pulmonary Disease	13	7.7	5.2	*	15.4	10.1	*	15.4	14.5	*
Transient Cerebral Ischemia	16	12.5	2.3	*	12.5	4.9	*	12.5	7.8	*
Stroke	46	28.3	23.2	*	37.0	31.4	*	41.3	36.2	*
Hip Fracture	43	2.3	7.9	*	9.3	13.9	*	16.3	17.7	*
Sepsis	14	7.1	26.8	*	7.1	33.5	*	7.1	39.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	18	5.6	3.9	*	5.6	8.0	*	5.6	11.7	*
Carotid Endarterectomy	7	0.0	1.5	*	0.0	2.7	*	0.0	3.8	*
Hip Replacement/Reconstruction	31	0.0	3.9	*	9.7	7.0	*	12.9	9.0	*
Open Reduction of Hip Fracture	23	0.0	6.1	*	0.0	11.4	*	8.7	14.8	*
Prostatectomy	94	1.1	1.1	1.2	2.1	2.7	2.6	6.4	4.5	3.7
Cholecystectomy	31	3.2	2.1	*	6.5	3.6	*	6.5	4.8	*
Hysterectomy	10	0.0	0.1	*	0.0	0.2	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOLY CROSS HOSPITAL

4777 E Outer Drive
Detroit, MI 48234

Medicare Provider Number: 230065

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,599	11.0	10.8	1.0	17.6	15.9	1.2	22.2	19.7	1.4
CONDITIONS:										
Acute Myocardial Infarction	59	32.2	28.1	7.3	33.9	31.3	7.0	37.3	34.7	6.8
Congestive Heart Failure	148	8.8	13.6	5.3	20.3	21.1	4.1	27.0	27.5	3.7
Pneumonia/Influenza	56	26.8	17.3	6.8	33.9	23.2	7.4	41.1	27.9	8.5
Chronic Obstructive Pulmonary Disease	13	7.7	9.8	*	7.7	15.1	*	7.7	19.9	*
Transient Cerebral Ischemia	30	3.3	1.8	*	6.7	3.9	*	6.7	6.2	*
Stroke	94	12.8	18.2	4.5	25.5	24.9	4.5	33.0	29.1	5.1
Hip Fracture	33	3.0	6.5	*	3.0	11.1	*	9.1	14.1	*
Sepsis	9	55.6	24.5	*	55.6	32.2	*	55.6	37.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	10	0.0	4.1	*	0.0	8.7	*	10.0	12.9	*
Carotid Endarterectomy	9	0.0	1.3	*	0.0	2.4	*	0.0	3.4	*
Hip Replacement/Reconstruction	18	0.0	6.4	*	0.0	11.0	*	5.6	13.9	*
Open Reduction of Hip Fracture	15	6.7	5.9	*	6.7	10.4	*	13.3	13.2	*
Prostatectomy	53	0.0	1.1	1.7	0.0	2.5	2.9	1.9	4.1	3.5
Cholecystectomy	30	3.3	2.3	*	3.3	3.8	*	3.3	5.1	*
Hysterectomy	15	0.0	1.2	*	0.0	2.3	*	6.7	3.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1988

Total Beds	195
Occupancy Rate	76
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	248
Percent of Physicians Board Certified Specialists	58
Medical Residents/Interns	0
Registered Nurses	176
Licensed Practical Nurses	36

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

HOLY CROSS HOSPITAL

Medicare Provider Number: 230065

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,619	10.9	10.3	0.9	16.7	15.3	1.3	20.8	19.1	1.6
CONDITIONS:										
Acute Myocardial Infarction	74	27.0	28.5	5.7	33.8	31.6	6.1	36.5	34.8	6.1
Congestive Heart Failure	130	16.2	14.3	5.5	23.1	21.9	4.5	30.0	28.3	4.8
Pneumonia/Influenza	58	12.1	16.5	5.2	15.5	22.2	6.2	22.4	26.6	6.2
Chronic Obstructive Pulmonary Disease	25	4.0	7.5	*	16.0	12.6	*	24.0	17.0	*
Transient Cerebral Ischemia	48	2.1	1.9	*	4.2	4.1	*	4.2	6.3	*
Stroke	80	18.8	19.6	4.5	31.3	26.8	5.5	33.7	31.5	6.1
Hip Fracture	24	12.5	6.6	*	12.5	11.7	*	20.8	15.1	*
Sepsis	8	37.5	30.9	*	37.5	38.1	*	50.0	44.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	14	0.0	3.3	*	7.1	7.0	*	7.1	10.6	*
Carotid Endarterectomy	10	0.0	1.4	*	20.0	2.5	*	20.0	3.7	*
Hip Replacement/Reconstruction	9	0.0	2.9	*	0.0	5.2	*	0.0	6.8	*
Open Reduction of Hip Fracture	11	18.2	7.3	*	18.2	14.0	*	36.4	18.4	*
Prostatectomy	67	3.0	0.9	2.4	6.0	2.2	3.2	7.5	3.7	3.4
Cholecystectomy	41	0.0	2.3	*	0.0	4.2	*	0.0	5.3	*
Hysterectomy	10	0.0	0.6	*	10.0	1.5	*	10.0	2.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,632	11.2	10.3	0.8	16.9	15.2	1.1	20.6	19.0	1.3
CONDITIONS:										
Acute Myocardial Infarction	85	38.8	27.6	7.7	42.4	30.6	8.0	44.7	33.9	7.7
Congestive Heart Failure	128	21.1	16.1	6.2	28.1	24.5	6.6	33.6	31.4	5.4
Pneumonia/Influenza	63	15.9	15.8	4.7	25.4	21.2	6.0	31.7	25.5	7.9
Chronic Obstructive Pulmonary Disease	21	14.3	11.3	*	14.3	18.2	*	14.3	23.4	*
Transient Cerebral Ischemia	28	0.0	2.1	*	3.6	4.5	*	3.6	6.9	*
Stroke	81	18.5	18.7	5.2	27.2	25.4	5.3	30.9	29.7	5.5
Hip Fracture	26	7.7	7.4	*	11.5	12.7	*	15.4	16.1	*
Sepsis	5	60.0	30.5	*	60.0	36.7	*	80.0	43.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	16	0.0	4.1	*	12.5	8.6	*	12.5	12.6	*
Carotid Endarterectomy	13	0.0	1.8	*	0.0	3.4	*	7.7	4.9	*
Hip Replacement/Reconstruction	15	6.7	4.9	*	6.7	8.3	*	6.7	10.8	*
Open Reduction of Hip Fracture	14	7.1	7.3	*	7.1	13.4	*	14.3	17.2	*
Prostatectomy	64	3.1	0.9	2.0	3.1	2.2	2.5	3.1	3.7	3.2
Cholecystectomy	47	2.1	2.0	*	2.1	3.5	*	4.3	4.7	*
Hysterectomy	15	0.0	0.8	*	0.0	1.5	*	0.0	2.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HURLEY MEDICAL CENTER

1 Hurley Plaza
Flint, MI 48502

Medicare Provider Number: 230132

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,797	9.3	9.6	0.9	15.8	14.9	1.1	19.4	19.0	1.2
CONDITIONS:										
Acute Myocardial Infarction	55	25.5	27.2	6.6	30.9	30.3	7.5	32.7	33.5	6.9
Congestive Heart Failure	122	18.9	13.7	4.0	25.4	21.5	4.3	36.1	28.1	5.7
Pneumonia/Influenza	40	15.0	14.1	*	22.5	19.3	*	27.5	23.5	*
Chronic Obstructive Pulmonary Disease	7	14.3	10.7	*	14.3	17.7	*	14.3	23.5	*
Transient Cerebral Ischemia	26	0.0	1.5	*	3.8	3.1	*	3.8	4.7	*
Stroke	46	17.4	20.2	*	19.6	26.6	*	19.6	30.9	*
Hip Fracture	31	3.2	6.0	*	9.7	10.8	*	16.1	14.0	*
Sepsis	33	15.2	23.3	*	30.3	32.2	*	36.4	38.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	16	0.0	2.9	*	0.0	6.1	*	6.3	9.1	*
Carotid Endarterectomy	13	0.0	1.5	*	7.7	2.7	*	7.7	4.0	*
Hip Replacement/Reconstruction	17	0.0	4.2	*	11.8	8.1	*	17.6	10.9	*
Open Reduction of Hip Fracture	18	5.6	5.1	*	5.6	9.7	*	11.1	12.9	*
Prostatectomy	44	2.3	0.8	*	2.3	1.9	*	2.3	3.3	*
Cholecystectomy	26	3.8	3.2	*	3.8	5.8	*	7.7	7.7	*
Hysterectomy	11	0.0	0.2	*	0.0	0.3	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	540
Occupancy Rate	70
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	232
Percent of Physicians Board Certified Specialists	63
Medical Residents/Interns	66
Registered Nurses	720
Licensed Practical Nurses	140

SPECIALTY SERVICES:

Burn Unit	Yes
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	Yes
Other Intensive Care	Yes
Rehabilitation Unit	No
Trauma Center	Yes

**** Not used in calculating hospital mortality rates.**

HURLEY MEDICAL CENTER
Medicare Provider Number: 230132

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,620	9.4	10.3	0.9	15.4	15.6	0.9	20.7	19.7	1.1
CONDITIONS:										
Acute Myocardial Infarction	41	24.4	27.6	*	26.8	30.7	*	29.3	34.1	*
Congestive Heart Failure	112	8.9	14.9	4.1	15.2	23.0	5.4	22.3	29.5	5.6
Pneumonia/Influenza	48	12.5	17.8	*	18.7	24.6	*	22.9	29.5	*
Chronic Obstructive Pulmonary Disease	25	4.0	12.9	*	8.0	20.3	*	12.0	25.8	*
Transient Cerebral Ischemia	14	0.0	2.2	*	7.1	4.8	*	14.3	7.6	*
Stroke	40	15.0	20.3	*	25.0	28.0	*	37.5	33.0	*
Hip Fracture	20	0.0	6.0	*	15.0	10.6	*	15.0	13.6	*
Sepsis	29	20.7	22.7	*	27.6	31.4	*	37.9	37.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	25.0	22.8	*	25.0	28.0	*	25.0	33.3	*
Carotid Endarterectomy	7	0.0	1.3	*	0.0	2.3	*	0.0	3.4	*
Hip Replacement/Reconstruction	14	0.0	3.5	*	7.1	6.4	*	7.1	8.2	*
Open Reduction of Hip Fracture	9	0.0	5.3	*	11.1	9.9	*	11.1	12.9	*
Prostatectomy	38	2.6	1.1	*	7.9	2.7	*	13.2	4.5	*
Cholecystectomy	20	10.0	5.3	*	10.0	8.3	*	20.0	10.6	*
Hysterectomy	12	0.0	0.1	*	0.0	0.3	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,434	9.2	9.1	0.8	15.1	14.4	1.1	19.5	18.6	1.2
CONDITIONS:										
Acute Myocardial Infarction	32	25.0	19.4	*	31.3	22.4	*	34.4	25.5	*
Congestive Heart Failure	85	7.1	15.0	5.6	20.0	23.0	6.3	25.9	29.8	5.5
Pneumonia/Influenza	37	18.9	16.6	*	32.4	22.7	*	35.1	27.7	*
Chronic Obstructive Pulmonary Disease	16	12.5	12.2	*	18.8	19.5	*	18.8	25.4	*
Transient Cerebral Ischemia	16	0.0	2.1	*	0.0	4.5	*	0.0	7.0	*
Stroke	55	21.8	20.5	6.0	23.6	27.6	6.9	30.9	32.2	6.4
Hip Fracture	23	0.0	6.3	*	21.7	11.6	*	26.1	15.4	*
Sepsis	17	35.3	29.9	*	47.1	38.6	*	52.9	45.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	9	11.1	3.9	*	11.1	7.9	*	11.1	11.6	*
Carotid Endarterectomy	6	16.7	1.9	*	16.7	3.5	*	33.3	5.1	*
Hip Replacement/Reconstruction	16	0.0	4.1	*	12.5	7.9	*	18.8	10.6	*
Open Reduction of Hip Fracture	11	0.0	5.6	*	27.3	11.0	*	27.3	15.0	*
Prostatectomy	33	6.1	1.3	*	9.1	3.0	*	9.1	4.9	*
Cholecystectomy	19	0.0	1.6	*	5.3	2.6	*	5.3	3.3	*
Hysterectomy	12	0.0	0.2	*	0.0	0.4	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

373.1

HURLEY MEDICAL CENTER ONE HURLEY PLAZA, FLINT, MICHIGAN 48502 PHONE (313) 257-9000

Medicare Provider No: 230132

Comments on HCFA 1990 Mortality Data

January 15, 1991

The Health Care Financing Administration (HCFA) has made significant changes in the methodology, format and presentation of its fifth annual publication of hospital mortality data. Major changes include the random selection of single admissions for analysis; the addition of a severity-adjustment factor representing the patient's principal diagnosis; the use of a survival model, rather than a logistic regression model, to estimate the probability of death for each Medicare patient at 30, 90 and 180 day intervals following the admission; the display of mortality rates for seventeen diagnostic categories that includes nine surgical procedures; and, finally, the presentation of observed mortality (actual death rate) against a point estimate of the expected rate (a national average for a similar patient population) and a standard deviation reflecting the variation in the expected mortality for the hospital.

In spite of these refinements, the predictive model used still lacks specific clinical data regarding the severity of illness of individual patients at the time of admission. Given that hospitals treating a large number of terminal or extremely acutely ill patients who tend to be admitted just prior to death will have higher than average crude mortality rates, the lack of adequate adjustment for severity of illness remains a serious deficiency.

HCFA's mortality data only shows whether a hospital's mortality experience is different from the national average and does not explain why the hospital is different. In addition, many hospitals will have too few cases in the diagnostic categories, particularly those related to surgical procedures, to yield a reliable test of significance. The model's estimate of expected mortality must be considered uninterpretable in these instances. Furthermore, the inclusion of long-term mortality data makes interpretation of the analysis more difficult since it increases the likelihood that confounding factors outside the hospital, i.e., unrelated accidents, access to physician services, availability and quality of home health care and nursing home care, etc., have contributed to an individual's death. Because of the deficiencies cited, HCFA's mortality data should not be used by consumers to draw conclusions about the quality and appropriateness of care provided by a hospital.

Hurley Medical Center is a 543 bed acute care referral hospital serving Flint, Michigan, and a three county area in mid-Michigan. The institution operates a number of highly specialized programs for the treatment of patients with terminal or critical conditions including cancer, acute kidney and heart disease, trauma and severe burns, as well as a regional unit for the treatment of head and neck injuries; geriatric and hospice services are also provided. Because of the nature and scope of these services, the institution's patients are more acutely ill than those admitted to the average community hospital, and are, therefore, at an increased risk of death at the time of admission.

Given Hurley Medical Center's particular patient population and the specialized services provided by the institution, it is significant to note that the institution's overall observed (actual) mortality rates for federal fiscal years 1989, 1988 and 1987 fell well within a 95 percent confidence interval or range of predicted mortality constructed using the standard deviations provided by HCFA. This is also true for those diagnostic categories where reliable tests of significance could be performed.

Hurley Medical Center is committed to supporting a comprehensive Quality Assurance Program designed to objectively evaluate the outcome of patient care services rendered and to identify opportunities to continuously improve the quality of care delivered at the institution. As one aspect of this program, criteria-based mortality review is routinely conducted for patient deaths on all clinical services. Findings from all quality assurance activities including mortality review are utilized in review of hospital policies and procedures, physician performance via the reappointment process and in educational activities for staff at all levels. Also, members of Hurley Medical Center's medical and utilization review staffs concurrently evaluate the quality of patient care rendered to individual patients through the institution's Utilization Management and Quality Assurance Programs.

Hurley Medical Center will thoroughly review HCFA's 1990 mortality analysis, along with ongoing information from its own Quality Assurance and Utilization Management Programs, in an effort to further enhance the quality of health care services provided to patients in the community.

DY/bab:755

HURON MEMORIAL HOSPITAL

1100 South Van Dyke Road
Bad Axe, MI 48413

Medicare Provider Number: 230118

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	621	9.5	8.0	1.7	12.4	12.2	1.6	16.3	15.7	2.0
CONDITIONS:										
Acute Myocardial Infarction	14	21.4	31.6	*	21.4	34.7	*	21.4	38.3	*
Congestive Heart Failure	43	23.3	16.5	*	30.2	24.6	*	34.9	31.7	*
Pneumonia/Influenza	41	19.5	16.9	*	24.4	22.7	*	29.3	27.4	*
Chronic Obstructive Pulmonary Disease	2	0.0	2.9	*	0.0	5.2	*	0.0	7.3	*
Transient Cerebral Ischemia	17	5.9	3.3	*	5.9	7.9	*	5.9	12.8	*
Stroke	19	31.6	20.5	*	36.8	27.1	*	36.8	31.5	*
Hip Fracture	42	7.1	7.0	*	9.5	12.5	*	14.3	16.2	*
Sepsis	4	25.0	25.4	*	25.0	30.7	*	50.0	36.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	39	5.1	3.1	*	7.7	5.7	*	10.3	7.6	*
Open Reduction of Hip Fracture	15	6.7	7.5	*	6.7	14.2	*	13.3	18.5	*
Prostatectomy	32	0.0	0.6	*	3.1	1.5	*	3.1	2.6	*
Cholecystectomy	18	5.6	2.5	*	5.6	4.0	*	11.1	5.1	*
Hysterectomy	7	0.0	0.8	*	0.0	1.6	*	0.0	2.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	93
Occupancy Rate	29
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	19
Percent of Physicians Board Certified Specialists	79
Medical Residents/Interns	0
Registered Nurses	42
Licensed Practical Nurses	33

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

HURON MEMORIAL HOSPITAL

Medicare Provider Number: 230118

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	649	6.9	6.9	1.0	10.6	10.6	1.2	13.7	13.4	1.4
CONDITIONS:										
Acute Myocardial Infarction	14	50.0	24.3	*	50.0	27.7	*	50.0	31.2	*
Congestive Heart Failure	39	12.8	17.2	*	28.2	25.5	*	33.3	32.6	*
Pneumonia/Influenza	27	11.1	14.4	*	14.8	19.5	*	14.8	23.7	*
Chronic Obstructive Pulmonary Disease	2	0.0	5.7	*	0.0	10.8	*	50.0	15.4	*
Transient Cerebral Ischemia	7	0.0	1.5	*	0.0	3.4	*	0.0	5.5	*
Stroke	19	26.3	23.9	*	42.1	32.4	*	47.4	37.4	*
Hip Fracture	47	8.5	4.9	*	10.6	9.1	*	17.0	12.1	*
Sepsis	2	0.0	12.0	*	0.0	16.9	*	0.0	21.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	38	2.6	1.9	*	2.6	3.8	*	7.9	5.3	*
Open Reduction of Hip Fracture	23	8.7	4.9	*	13.0	9.4	*	17.4	12.5	*
Prostatectomy	47	0.0	0.8	*	0.0	2.0	*	0.0	3.4	*
Cholecystectomy	20	0.0	1.3	*	0.0	2.5	*	0.0	3.3	*
Hysterectomy	8	0.0	0.4	*	0.0	0.8	*	0.0	1.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	650	7.5	7.7	1.1	10.9	11.8	1.4	13.2	15.0	1.8
CONDITIONS:										
Acute Myocardial Infarction	25	36.0	31.1	*	36.0	35.3	*	40.0	39.3	*
Congestive Heart Failure	33	27.3	16.1	*	30.3	24.2	*	33.3	30.9	*
Pneumonia/Influenza	31	6.5	16.1	*	12.9	21.6	*	16.1	26.1	*
Chronic Obstructive Pulmonary Disease	4	0.0	10.2	*	0.0	15.9	*	0.0	21.0	*
Transient Cerebral Ischemia	13	0.0	1.8	*	0.0	3.7	*	7.7	5.7	*
Stroke	18	38.9	19.7	*	55.6	26.8	*	61.1	31.3	*
Hip Fracture	35	2.9	5.6	*	11.4	10.6	*	11.4	14.1	*
Sepsis	4	25.0	21.4	*	25.0	29.4	*	25.0	35.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	31	0.0	2.2	*	0.0	4.2	*	0.0	5.8	*
Open Reduction of Hip Fracture	18	5.6	5.3	*	16.7	10.6	*	16.7	14.4	*
Prostatectomy	47	2.1	0.8	*	4.3	2.0	*	4.3	3.3	*
Cholecystectomy	22	0.0	1.6	*	0.0	2.8	*	4.5	3.6	*
Hysterectomy	4	0.0	0.2	*	0.0	0.3	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HURON VALLEY HOSPITAL

1601 East Commerce Road
Milford, MI 48042

Medicare Provider Number: 230277

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	929	12.4	10.0	1.4	18.4	15.0	1.8	22.3	18.9	1.8
CONDITIONS:										
Acute Myocardial Infarction	54	38.9	30.7	6.9	44.4	34.1	8.8	44.4	37.6	7.6
Congestive Heart Failure	61	18.0	14.4	8.0	26.2	22.5	7.6	32.8	29.3	7.0
Pneumonia/Influenza	56	17.9	16.0	6.0	25.0	22.1	7.0	28.6	27.0	6.3
Chronic Obstructive Pulmonary Disease	15	13.3	11.2	*	26.7	18.0	*	26.7	23.4	*
Transient Cerebral Ischemia	19	0.0	1.6	*	5.3	3.5	*	10.5	5.6	*
Stroke	41	22.0	15.7	*	29.3	22.1	*	31.7	26.4	*
Hip Fracture	33	3.0	6.2	*	18.2	11.7	*	24.2	15.5	*
Sepsis	9	22.2	25.7	*	22.2	33.1	*	33.3	39.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	8	0.0	4.9	*	12.5	10.3	*	12.5	14.9	*
Carotid Endarterectomy	3	0.0	1.3	*	0.0	2.2	*	0.0	3.3	*
Hip Replacement/Reconstruction	18	5.6	4.5	*	27.8	8.8	*	27.8	12.0	*
Open Reduction of Hip Fracture	13	0.0	4.8	*	7.7	9.3	*	15.4	12.3	*
Prostatectomy	26	0.0	0.5	*	0.0	1.3	*	0.0	2.2	*
Cholecystectomy	21	14.3	2.1	*	14.3	4.1	*	14.3	5.7	*
Hysterectomy	6	0.0	0.1	*	0.0	0.1	*	0.0	0.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	130
Occupancy Rate	57
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	242
Percent of Physicians Board Certified Specialists	76
Medical Residents/Interns	0
Registered Nurses	119
Licensed Practical Nurses	0

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

HURON VALLEY HOSPITAL

Medicare Provider Number: 230277

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	763	10.9	9.9	1.2	16.1	14.6	1.5	20.6	18.3	1.9
CONDITIONS:										
Acute Myocardial Infarction	41	24.4	29.1	*	36.6	32.0	*	36.6	35.2	*
Congestive Heart Failure	52	17.3	15.4	6.0	26.9	23.6	7.5	36.5	30.3	9.8
Pneumonia/Influenza	41	14.6	18.8	*	22.0	26.0	*	34.1	31.3	*
Chronic Obstructive Pulmonary Disease	16	6.3	9.7	*	6.3	15.0	*	6.3	19.8	*
Transient Cerebral Ischemia	13	0.0	1.9	*	15.4	4.2	*	23.1	6.6	*
Stroke	28	14.3	22.5	*	25.0	29.4	*	32.1	34.1	*
Hip Fracture	24	8.3	5.8	*	8.3	10.5	*	8.3	13.5	*
Sepsis	5	40.0	31.1	*	40.0	41.0	*	60.0	48.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	0.0	7.2	*	14.3	10.1	*	28.6	12.9	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	10	10.0	5.7	*	10.0	10.8	*	10.0	13.9	*
Open Reduction of Hip Fracture	13	7.7	4.6	*	7.7	8.8	*	7.7	11.7	*
Prostatectomy	29	6.9	0.7	*	6.9	1.6	*	6.9	2.7	*
Cholecystectomy	13	7.7	2.2	*	7.7	4.1	*	15.4	5.4	*
Hysterectomy	5	0.0	0.1	*	0.0	0.2	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	585	10.1	10.0	2.0	16.1	14.9	2.3	19.7	18.8	2.1
CONDITIONS:										
Acute Myocardial Infarction	23	30.4	26.7	*	30.4	29.1	*	30.4	31.8	*
Congestive Heart Failure	45	8.9	15.4	*	17.8	22.9	*	26.7	29.5	*
Pneumonia/Influenza	21	19.0	15.2	*	23.8	20.7	*	28.6	25.5	*
Chronic Obstructive Pulmonary Disease	13	30.8	14.3	*	30.8	23.2	*	46.2	30.0	*
Transient Cerebral Ischemia	16	0.0	2.0	*	0.0	4.3	*	6.3	6.7	*
Stroke	20	20.0	19.3	*	30.0	26.3	*	30.0	30.7	*
Hip Fracture	19	10.5	6.9	*	10.5	11.8	*	10.5	15.0	*
Sepsis	7	14.3	34.6	*	28.6	45.1	*	28.6	51.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	5	0.0	5.5	*	0.0	8.0	*	0.0	9.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	10	10.0	3.8	*	10.0	7.2	*	10.0	9.6	*
Open Reduction of Hip Fracture	12	16.7	7.2	*	16.7	12.8	*	16.7	16.1	*
Prostatectomy	24	0.0	0.7	*	0.0	1.6	*	4.2	2.8	*
Cholecystectomy	20	15.0	5.4	*	15.0	9.4	*	15.0	11.7	*
Hysterectomy	1	0.0	0.2	*	0.0	0.3	*	0.0	0.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HUTZEL HOSPITAL

4707 St Antoine Blvd
Detroit, MI 48201

Medicare Provider Number: 230076

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	860	4.8	5.6	1.1	9.1	9.5	1.3	12.8	12.8	1.2
CONDITIONS:										
Acute Myocardial Infarction	7	28.6	28.9	*	28.6	32.3	*	42.9	35.8	*
Congestive Heart Failure	31	9.7	13.1	*	12.9	20.2	*	29.0	26.3	*
Pneumonia/Influenza	16	12.5	13.6	*	12.5	18.7	*	12.5	22.5	*
Chronic Obstructive Pulmonary Disease	6	0.0	10.6	*	0.0	16.8	*	0.0	22.6	*
Transient Cerebral Ischemia	4	0.0	1.7	*	0.0	3.9	*	0.0	6.4	*
Stroke	12	0.0	15.4	*	16.7	21.0	*	16.7	24.8	*
Hip Fracture	23	8.7	7.0	*	13.0	13.1	*	21.7	17.5	*
Sepsis	4	25.0	28.3	*	25.0	37.9	*	50.0	45.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	37	2.7	1.5	*	2.7	2.8	*	2.7	3.9	*
Open Reduction of Hip Fracture	8	0.0	6.7	*	0.0	12.9	*	12.5	17.3	*
Prostatectomy	25	8.0	0.7	*	12.0	1.7	*	12.0	2.9	*
Cholecystectomy	9	0.0	3.9	*	11.1	7.5	*	11.1	9.8	*
Hysterectomy	62	3.2	1.2	2.4	4.8	2.8	4.2	8.1	4.5	6.5

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	369
Occupancy Rate	82
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	617
Percent of Physicians Board Certified Specialists	70
Medical Residents/Interns	92
Registered Nurses	357
Licensed Practical Nurses	51

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	Yes
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

HUTZEL HOSPITAL

Medicare Provider Number: 230076

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,182	8.2	8.8	1.1	13.5	14.3	1.2	18.1	18.7	1.3
CONDITIONS:										
Acute Myocardial Infarction	18	22.2	29.3	*	22.2	32.6	*	22.2	36.1	*
Congestive Heart Failure	55	9.1	13.3	5.5	14.5	20.4	7.5	18.2	26.7	9.5
Pneumonia/Influenza	18	16.7	16.5	*	27.8	22.7	*	27.8	27.4	*
Chronic Obstructive Pulmonary Disease	22	9.1	10.6	*	22.7	18.8	*	22.7	25.4	*
Transient Cerebral Ischemia	14	0.0	2.8	*	7.1	6.9	*	21.4	11.0	*
Stroke	30	16.7	19.3	*	30.0	26.4	*	33.3	30.7	*
Hip Fracture	11	0.0	7.6	*	9.1	13.9	*	45.5	18.2	*
Sepsis	7	42.9	27.1	*	42.9	39.9	*	42.9	47.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	11	0.0	2.9	*	0.0	5.8	*	18.2	7.9	*
Open Reduction of Hip Fracture	3	0.0	8.5	*	33.3	16.4	*	66.7	21.6	*
Prostatectomy	48	0.0	0.9	*	0.0	2.2	*	0.0	3.7	*
Cholecystectomy	11	0.0	1.6	*	0.0	3.0	*	0.0	3.9	*
Hysterectomy	47	0.0	1.1	*	0.0	2.3	*	2.1	3.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,476	8.4	9.0	1.2	12.9	14.7	1.1	16.8	19.2	1.3
CONDITIONS:										
Acute Myocardial Infarction	27	18.5	27.1	*	25.9	31.5	*	29.6	35.3	*
Congestive Heart Failure	81	16.0	16.2	4.1	21.0	25.2	6.7	27.2	32.4	9.2
Pneumonia/Influenza	21	33.3	16.7	*	38.1	22.7	*	38.1	27.1	*
Chronic Obstructive Pulmonary Disease	17	0.0	16.4	*	23.5	27.4	*	23.5	35.0	*
Transient Cerebral Ischemia	16	6.3	1.7	*	12.5	3.9	*	18.8	6.3	*
Stroke	42	19.0	17.3	*	23.8	24.2	*	26.2	28.6	*
Hip Fracture	14	7.1	7.0	*	7.1	12.1	*	7.1	15.4	*
Sepsis	7	0.0	20.4	*	14.3	28.0	*	14.3	32.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	14.3	2.7	*	14.3	5.7	*	14.3	8.6	*
Carotid Endarterectomy	1	0.0	1.2	*	0.0	2.2	*	0.0	3.1	*
Hip Replacement/Reconstruction	11	0.0	2.7	*	0.0	4.9	*	0.0	6.3	*
Open Reduction of Hip Fracture	8	12.5	6.6	*	12.5	12.0	*	12.5	15.4	*
Prostatectomy	60	1.7	1.4	1.6	3.3	3.4	2.3	3.3	5.6	3.6
Cholecystectomy	16	12.5	2.9	*	18.8	5.6	*	18.8	7.7	*
Hysterectomy	39	5.1	2.2	*	7.7	4.5	*	7.7	6.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

INGHAM MEDICAL CENTER

401 W Greenlawn Avenue
Lansing, MI 48910

Medicare Provider Number: 230129

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	2,038	8.0	8.8	1.0	13.0	13.1	1.1	16.0	16.5	0.9
CONDITIONS:										
Acute Myocardial Infarction	131	16.8	24.5	5.5	20.6	28.1	6.0	22.9	31.7	5.9
Congestive Heart Failure	91	15.4	15.3	4.1	26.4	24.1	5.3	34.1	31.2	5.8
Pneumonia/Influenza	64	7.8	16.0	6.1	17.2	21.9	6.0	20.3	26.6	6.3
Chronic Obstructive Pulmonary Disease	26	7.7	7.9	*	19.2	12.9	*	23.1	17.5	*
Transient Cerebral Ischemia	16	0.0	2.9	*	0.0	7.1	*	0.0	11.6	*
Stroke	61	18.0	20.1	5.4	26.2	27.0	6.0	31.1	31.4	6.0
Hip Fracture	33	3.0	6.4	*	3.0	11.6	*	6.1	15.1	*
Sepsis	29	13.8	25.6	*	27.6	34.0	*	37.9	39.6	*
PROCEDURES:										
Angioplasty	49	0.0	2.7	*	2.0	3.7	*	4.1	5.0	*
Coronary Artery Bypass Graft	150	7.3	5.2	2.4	7.3	7.3	2.1	8.0	8.7	2.6
Initial Pacemaker Insertion	21	0.0	2.2	*	4.8	4.3	*	4.8	6.5	*
Carotid Endarterectomy	24	0.0	1.3	*	4.2	2.5	*	12.5	3.7	*
Hip Replacement/Reconstruction	85	1.2	1.1	1.2	1.2	2.1	1.8	1.2	3.0	2.5
Open Reduction of Hip Fracture	20	5.0	6.4	*	5.0	11.7	*	10.0	15.1	*
Prostatectomy	76	0.0	1.2	*	0.0	2.3	*	0.0	3.6	*
Cholecystectomy	36	13.9	2.2	*	16.7	4.1	*	16.7	5.6	*
Hysterectomy	4	0.0	0.5	*	0.0	1.1	*	0.0	1.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	258
Occupancy Rate	59
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	244
Percent of Physicians Board Certified Specialists	74
Medical Residents/Interns	0
Registered Nurses	313
Licensed Practical Nurses	51

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	Yes
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

INGHAM MEDICAL CENTER

Medicare Provider Number: 230129

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,961	8.4	8.7	0.7	12.8	13.0	1.1	15.4	16.4	1.5
CONDITIONS:										
Acute Myocardial Infarction	141	18.4	23.7	4.5	22.0	27.4	4.8	23.4	31.1	5.7
Congestive Heart Failure	90	11.1	15.6	4.2	18.9	23.5	5.0	27.8	30.1	5.0
Pneumonia/Influenza	65	7.7	16.3	8.4	12.3	22.0	9.4	15.4	26.4	9.8
Chronic Obstructive Pulmonary Disease	22	0.0	10.8	*	13.6	19.0	*	18.2	25.4	*
Transient Cerebral Ischemia	21	0.0	2.7	*	0.0	5.9	*	4.8	9.0	*
Stroke	54	24.1	20.5	8.5	31.5	27.9	8.0	35.2	32.7	7.3
Hip Fracture	28	0.0	7.4	*	7.1	13.3	*	10.7	17.2	*
Sepsis	18	27.8	24.0	*	50.0	34.1	*	50.0	41.0	*
PROCEDURES:										
Angioplasty	43	4.7	3.4	*	4.7	4.3	*	7.0	5.2	*
Coronary Artery Bypass Graft	167	5.4	5.6	2.2	7.2	7.9	3.2	7.8	9.3	3.3
Initial Pacemaker Insertion	25	4.0	5.4	*	4.0	8.7	*	8.0	11.6	*
Carotid Endarterectomy	24	0.0	1.3	*	0.0	2.4	*	4.2	3.4	*
Hip Replacement/Reconstruction	84	0.0	1.6	1.9	2.4	2.9	2.3	3.6	3.9	2.2
Open Reduction of Hip Fracture	13	0.0	5.8	*	7.7	10.7	*	7.7	14.0	*
Prostatectomy	76	1.3	0.8	1.7	2.6	1.9	2.8	3.9	3.2	3.3
Cholecystectomy	24	4.2	2.4	*	8.3	4.9	*	12.5	6.9	*
Hysterectomy	10	0.0	0.5	*	0.0	1.1	*	0.0	1.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,091	7.1	7.3	0.6	11.6	11.1	0.8	14.0	14.1	0.8
CONDITIONS:										
Acute Myocardial Infarction	108	27.8	21.7	5.6	29.6	25.2	5.2	30.6	28.5	4.6
Congestive Heart Failure	87	18.4	15.2	4.7	25.3	23.2	5.4	29.9	29.9	4.9
Pneumonia/Influenza	58	10.3	14.2	6.1	17.2	19.6	6.3	22.4	23.9	6.0
Chronic Obstructive Pulmonary Disease	32	9.4	7.4	*	12.5	12.5	*	18.8	16.9	*
Transient Cerebral Ischemia	19	0.0	1.5	*	10.5	3.3	*	10.5	5.2	*
Stroke	43	25.6	21.3	*	25.6	28.9	*	30.2	33.6	*
Hip Fracture	41	7.3	6.3	*	9.8	11.5	*	12.2	15.0	*
Sepsis	29	13.8	22.8	*	27.6	30.8	*	31.0	36.5	*
PROCEDURES:										
Angioplasty	43	2.3	3.2	*	2.3	4.2	*	4.7	5.4	*
Coronary Artery Bypass Graft	123	5.7	6.5	3.7	8.1	9.3	4.0	8.1	10.8	3.3
Initial Pacemaker Insertion	32	3.1	2.6	*	6.3	5.5	*	6.3	8.3	*
Carotid Endarterectomy	25	0.0	1.6	*	4.0	3.3	*	4.0	4.9	*
Hip Replacement/Reconstruction	87	1.1	1.9	1.9	2.3	3.6	2.8	3.4	4.9	3.2
Open Reduction of Hip Fracture	18	5.6	4.9	*	5.6	9.1	*	5.6	11.9	*
Prostatectomy	86	0.0	0.9	1.3	1.2	2.3	2.2	2.3	3.7	3.0
Cholecystectomy	29	3.4	2.3	*	6.9	4.1	*	10.3	5.5	*
Hysterectomy	12	0.0	0.3	*	0.0	0.6	*	0.0	1.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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Medicare Provider #230129

INGHAM MEDICAL CENTER

401 W. Greenlawn Ave.
Lansing, Michigan 48910-2819

Diane Yeager
Associate Vice President
Medical Information Services
(517) 334-2274

January 14, 1991

Mrs. Sandra Kappert
Health Care Financing Administrator
Health Standard and Quality Bureau
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

RE: 1989 Medicare Hospital Mortality Rates

Dear Mrs. Kappert:

Please include the following comments in the Medical Hospital Mortality Information publication:

1. **Medical Residents/Interns** - The reported "O" statistic in the category is incorrect. The correct number is forty-eight (48).

2. **Procedures/Cholecystectomy** - Thirty-six (36) patients underwent a cholecystectomy procedure during this reporting period. Six (6) patients expired by the observed post-admission 180 day time frame. In three cases the cholecystectomy was not the principle procedure performed. These patients had major principle procedures associated with carcinoma. A fourth case expired several months post cholecystectomy due to a cerebrovascular accident. The two remaining cholecystectomy patients would re-calculate the 180 day predicted mortality rate to be the expected 5.6%.

Thank you for the opportunity to provide additional information on the Medicare Hospital Mortality Rates.

Sincerely,

Diane Yeager

Diane Yeager, R.R.A.
Associate Vice President
Medical Information Services

DY/sf

IONIA COUNTY MEMORIAL HOSPITAL

479 Lafayette St
Ionia, MI 48846

Medicare Provider Number: 230027

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	420	15.0	11.3	1.9	21.9	16.7	2.4	26.9	21.0	2.9
CONDITIONS:										
Acute Myocardial Infarction	16	25.0	23.8	*	31.3	26.1	*	43.8	28.8	*
Congestive Heart Failure	48	25.0	14.2	*	31.2	22.2	*	41.7	29.1	*
Pneumonia/Influenza	43	11.6	15.4	*	11.6	20.9	*	18.6	25.5	*
Chronic Obstructive Pulmonary Disease	7	14.3	3.5	*	28.6	6.7	*	28.6	9.9	*
Transient Cerebral Ischemia	9	0.0	1.7	*	0.0	3.7	*	0.0	6.0	*
Stroke	19	31.6	21.1	*	47.4	27.7	*	57.9	32.3	*
Hip Fracture	3	0.0	5.2	*	0.0	10.3	*	0.0	14.1	*
Sepsis	4	0.0	20.5	*	0.0	28.1	*	0.0	33.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	1.4	*	0.0	3.2	*	0.0	5.1	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	2	0.0	4.9	*	0.0	10.0	*	0.0	13.9	*
Prostatectomy	0									
Cholecystectomy	7	0.0	3.0	*	0.0	6.2	*	0.0	8.9	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	77
Occupancy Rate	27
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	11
Percent of Physicians Board Certified Specialists	55
Medical Residents/Interns	0
Registered Nurses	42
Licensed Practical Nurses	15

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

IONIA COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 230027

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	380	11.3	13.5	2.5	17.6	19.1	2.3	21.8	23.3	2.4
CONDITIONS:										
Acute Myocardial Infarction	16	18.8	26.4	*	18.8	29.2	*	18.8	32.4	*
Congestive Heart Failure	34	11.8	17.0	*	20.6	25.3	*	32.4	32.1	*
Pneumonia/Influenza	44	9.1	17.7	*	20.5	23.7	*	25.0	28.4	*
Chronic Obstructive Pulmonary Disease	6	0.0	9.2	*	16.7	15.5	*	33.3	21.4	*
Transient Cerebral Ischemia	9	0.0	2.3	*	0.0	4.9	*	11.1	7.7	*
Stroke	28	25.0	24.5	*	42.9	33.0	*	46.4	38.0	*
Hip Fracture	6	33.3	8.4	*	33.3	14.7	*	33.3	18.5	*
Sepsis	10	20.0	26.4	*	20.0	32.5	*	20.0	37.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	5	20.0	7.2	*	20.0	13.4	*	20.0	17.3	*
Prostatectomy	0									
Cholecystectomy	5	0.0	1.5	*	0.0	2.7	*	0.0	3.4	*
Hysterectomy	4	0.0	1.9	*	0.0	3.8	*	0.0	5.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	412	12.1	12.6	1.7	19.4	17.8	2.4	22.6	22.0	2.5
CONDITIONS:										
Acute Myocardial Infarction	18	22.2	25.8	*	22.2	28.5	*	22.2	31.6	*
Congestive Heart Failure	36	25.0	16.9	*	41.7	26.1	*	41.7	33.4	*
Pneumonia/Influenza	42	9.5	17.1	*	14.3	23.2	*	21.4	28.2	*
Chronic Obstructive Pulmonary Disease	7	0.0	4.6	*	0.0	9.2	*	0.0	13.3	*
Transient Cerebral Ischemia	9	0.0	1.7	*	0.0	3.7	*	0.0	5.9	*
Stroke	18	27.8	18.9	*	33.3	26.3	*	38.9	31.1	*
Hip Fracture	4	25.0	6.2	*	50.0	10.9	*	50.0	13.8	*
Sepsis	7	28.6	30.2	*	28.6	36.4	*	28.6	42.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	5	0.0	7.4	*	0.0	12.5	*	0.0	16.0	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	4	25.0	5.3	*	50.0	10.0	*	50.0	12.9	*
Prostatectomy	0									
Cholecystectomy	15	0.0	2.7	*	0.0	4.9	*	6.7	6.2	*
Hysterectomy	3	0.0	0.8	*	0.0	1.6	*	0.0	2.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

IRON COUNTY GENERAL HOSPITAL

1400 W Ice Lake Rd
Iron River, MI 49935

Medicare Provider Number: 230149

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	330	12.4	11.4	2.1	14.8	17.2	2.5	18.2	21.5	3.1
CONDITIONS:										
Acute Myocardial Infarction	13	23.1	25.2	*	23.1	28.2	*	23.1	31.6	*
Congestive Heart Failure	11	9.1	18.7	*	9.1	25.9	*	18.2	32.2	*
Pneumonia/Influenza	18	27.8	20.0	*	33.3	27.5	*	44.4	33.1	*
Chronic Obstructive Pulmonary Disease	10	0.0	7.2	*	0.0	12.4	*	0.0	17.4	*
Transient Cerebral Ischemia	3	0.0	1.4	*	0.0	3.1	*	0.0	5.0	*
Stroke	17	23.5	22.7	*	23.5	29.4	*	29.4	34.1	*
Hip Fracture	0									
Sepsis	7	14.3	35.5	*	14.3	43.2	*	28.6	49.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	2.2	*	0.0	5.6	*	0.0	9.4	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	9	0.0	1.4	*	0.0	2.4	*	0.0	3.0	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	36
Occupancy Rate	36
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	7
Percent of Physicians Board Certified Specialists	71
Medical Residents/Interns	0
Registered Nurses	19
Licensed Practical Nurses	13

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

IRON COUNTY GENERAL HOSPITAL

Medicare Provider Number: 230149

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	357	9.5	11.0	2.5	12.9	16.1	3.1	18.5	20.0	2.9
CONDITIONS:										
Acute Myocardial Infarction	19	21.1	25.7	*	21.1	29.4	*	26.3	33.0	*
Congestive Heart Failure	26	15.4	17.6	*	15.4	27.1	*	26.9	34.6	*
Pneumonia/Influenza	11	9.1	25.8	*	9.1	35.6	*	36.4	41.8	*
Chronic Obstructive Pulmonary Disease	8	0.0	4.2	*	12.5	7.5	*	12.5	10.5	*
Transient Cerebral Ischemia	4	0.0	3.1	*	0.0	7.5	*	25.0	12.7	*
Stroke	23	30.4	21.5	*	30.4	28.4	*	34.8	33.5	*
Hip Fracture	0									
Sepsis	5	0.0	29.8	*	0.0	37.3	*	40.0	43.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	1.3	*	0.0	2.5	*	0.0	3.8	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	10	10.0	2.8	*	10.0	4.9	*	10.0	6.4	*
Hysterectomy	1	0.0	0.2	*	0.0	0.3	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	320	9.7	9.7	1.7	14.1	14.8	2.0	15.6	18.8	2.7
CONDITIONS:										
Acute Myocardial Infarction	11	18.2	23.2	*	18.2	26.7	*	18.2	30.2	*
Congestive Heart Failure	23	8.7	15.5	*	21.7	23.9	*	26.1	31.0	*
Pneumonia/Influenza	13	7.7	13.5	*	7.7	18.3	*	15.4	22.3	*
Chronic Obstructive Pulmonary Disease	11	9.1	6.3	*	9.1	10.9	*	9.1	14.8	*
Transient Cerebral Ischemia	6	0.0	1.6	*	16.7	3.4	*	16.7	5.4	*
Stroke	12	33.3	19.1	*	33.3	25.9	*	41.7	30.5	*
Hip Fracture	1	0.0	2.1	*	0.0	4.9	*	0.0	7.3	*
Sepsis	5	40.0	20.7	*	40.0	25.3	*	40.0	30.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	12	0.0	1.5	*	0.0	2.7	*	0.0	3.5	*
Hysterectomy	1	0.0	0.7	*	0.0	1.3	*	0.0	2.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

KALKASKA MEMORIAL HEALTH CENTER

419 Coral
Kalkaska, MI 49646

Medicare Provider Number: 230211

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	126	6.3	10.2	3.7	13.5	15.5	3.9	18.3	19.8	3.8
CONDITIONS:										
Acute Myocardial Infarction	6	16.7	26.8	*	16.7	30.3	*	16.7	33.7	*
Congestive Heart Failure	11	27.3	17.7	*	27.3	27.0	*	27.3	33.7	*
Pneumonia/Influenza	11	9.1	13.8	*	27.3	19.0	*	27.3	23.0	*
Chronic Obstructive Pulmonary Disease	2	0.0	28.8	*	0.0	43.7	*	0.0	52.2	*
Transient Cerebral Ischemia	3	33.3	3.0	*	33.3	6.6	*	66.7	10.6	*
Stroke	3	0.0	18.6	*	0.0	29.1	*	33.3	35.3	*
Hip Fracture	0									
Sepsis	1	100.0	40.1	*	100.0	45.6	*	100.0	52.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	47
Occupancy Rate	36
Ownership/Control	District/Authority

STAFFING: (As of September 30, 1989)

Total Number of Physicians	6
Percent of Physicians Board Certified Specialists	67
Medical Residents/Interns	0
Registered Nurses	11
Licensed Practical Nurses	8

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

KALKASKA MEMORIAL HEALTH CENTER

Medicare Provider Number: 230211

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	116	13.8	9.3	4.5	21.6	14.4	5.3	23.3	18.6	5.3
CONDITIONS:										
Acute Myocardial Infarction	2	50.0	19.4	*	50.0	22.0	*	50.0	24.9	*
Congestive Heart Failure	11	9.1	15.9	*	18.2	24.1	*	18.2	31.0	*
Pneumonia/Influenza	11	36.4	16.4	*	54.5	22.0	*	54.5	26.5	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	1	0.0	3.6	*	0.0	8.8	*	0.0	14.6	*
Stroke	5	60.0	22.3	*	60.0	29.6	*	60.0	34.1	*
Hip Fracture	0									
Sepsis	1	0.0	19.3	*	0.0	26.0	*	0.0	31.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	124	13.7	14.8	4.2	19.4	20.6	3.9	27.4	24.9	4.4
CONDITIONS:										
Acute Myocardial Infarction	4	25.0	27.8	*	25.0	31.2	*	25.0	34.6	*
Congestive Heart Failure	17	29.4	18.9	*	35.3	27.9	*	47.1	34.6	*
Pneumonia/Influenza	25	8.0	18.4	*	16.0	25.0	*	24.0	30.3	*
Chronic Obstructive Pulmonary Disease	1	0.0	14.4	*	0.0	25.2	*	0.0	32.8	*
Transient Cerebral Ischemia	3	33.3	2.1	*	33.3	4.6	*	33.3	7.4	*
Stroke	2	50.0	25.6	*	50.0	31.3	*	50.0	36.1	*
Hip Fracture	0									
Sepsis	1	0.0	59.5	*	0.0	64.7	*	0.0	70.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

KELSEY MEMORIAL HOSPITAL

418 Washington Ave
Lakeview, MI 48850

Medicare Provider Number: 230155

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	167	13.2	11.6	3.1	19.2	16.9	4.5	23.4	20.9	6.1
CONDITIONS:										
Acute Myocardial Infarction	7	14.3	25.2	*	14.3	29.5	*	14.3	33.7	*
Congestive Heart Failure	3	0.0	17.2	*	33.3	26.5	*	33.3	34.0	*
Pneumonia/Influenza	14	28.6	13.8	*	28.6	18.5	*	28.6	22.6	*
Chronic Obstructive Pulmonary Disease	2	0.0	10.9	*	0.0	16.1	*	0.0	20.8	*
Transient Cerebral Ischemia	3	0.0	1.6	*	0.0	3.7	*	0.0	6.0	*
Stroke	5	20.0	27.4	*	20.0	36.6	*	20.0	42.2	*
Hip Fracture	0									
Sepsis	4	25.0	29.4	*	25.0	42.9	*	25.0	53.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	5	0.0	0.6	*	0.0	1.0	*	0.0	1.3	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	94
Occupancy Rate	51
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	8
Percent of Physicians Board Certified Specialists	25
Medical Residents/Interns	0
Registered Nurses	15
Licensed Practical Nurses	14

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

KELSEY MEMORIAL HOSPITAL

Medicare Provider Number: 230155

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	185	10.8	10.0	2.4	15.1	15.3	2.7	20.5	19.3	3.4
CONDITIONS:										
Acute Myocardial Infarction	4	25.0	32.7	*	25.0	37.0	*	25.0	41.2	*
Congestive Heart Failure	9	33.3	19.8	*	55.6	30.0	*	55.6	36.3	*
Pneumonia/Influenza	16	12.5	14.0	*	12.5	19.1	*	12.5	23.2	*
Chronic Obstructive Pulmonary Disease	3	0.0	3.8	*	33.3	6.8	*	66.7	9.6	*
Transient Cerebral Ischemia	3	0.0	1.8	*	0.0	3.9	*	0.0	6.1	*
Stroke	10	10.0	19.0	*	10.0	25.2	*	20.0	29.4	*
Hip Fracture	0									
Sepsis	3	0.0	29.4	*	0.0	34.7	*	66.7	40.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	3	0.0	1.3	*	0.0	2.4	*	0.0	3.0	*
Hysterectomy	3	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	213	12.2	9.2	2.8	16.9	13.3	3.3	18.3	16.7	2.9
CONDITIONS:										
Acute Myocardial Infarction	9	11.1	31.9	*	22.2	36.6	*	22.2	40.4	*
Congestive Heart Failure	6	33.3	14.7	*	33.3	22.4	*	33.3	29.2	*
Pneumonia/Influenza	24	16.7	12.5	*	25.0	17.0	*	25.0	21.2	*
Chronic Obstructive Pulmonary Disease	3	33.3	3.4	*	33.3	6.5	*	33.3	9.4	*
Transient Cerebral Ischemia	5	0.0	3.6	*	0.0	8.4	*	0.0	13.8	*
Stroke	6	33.3	25.9	*	33.3	30.9	*	33.3	35.0	*
Hip Fracture	0									
Sepsis	5	0.0	22.1	*	0.0	29.7	*	0.0	35.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	3	0.0	2.2	*	0.0	3.5	*	0.0	4.5	*
Hysterectomy	3	0.0	0.3	*	0.0	0.6	*	0.0	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

KENT COMMUNITY HOSPITAL

750 Fuller Ave N E
Grand Rapids, MI 49503

Medicare Provider Number: 230276

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	102	0.0	0.6	1.0	0.0	1.6	1.9	2.0	2.7	1.8
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	502
Occupancy Rate	87
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	33
Percent of Physicians Board Certified Specialists	45
Medical Residents/Interns	(Not Available)
Registered Nurses	(Not Available)
Licensed Practical Nurses	(Not Available)

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

KENT COMMUNITY HOSPITAL

Medicare Provider Number: 230276

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	92	0.0	0.6	*	0.0	1.4	*	0.0	2.3	*
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	65	0.0	0.8	1.3	1.5	2.0	1.8	3.1	3.3	2.2
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

LAKE VIEW COMMUNITY HOSPITAL

408 Hazen St Box 209
Paw Paw, MI 49079

Medicare Provider Number: 230172

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	407	10.8	10.2	1.7	16.2	14.9	2.7	18.4	18.8	2.3
CONDITIONS:										
Acute Myocardial Infarction	8	25.0	32.1	*	37.5	35.8	*	37.5	39.8	*
Congestive Heart Failure	29	17.2	13.7	*	24.1	20.9	*	24.1	27.2	*
Pneumonia/Influenza	24	16.7	18.3	*	20.8	24.6	*	29.2	29.6	*
Chronic Obstructive Pulmonary Disease	8	0.0	6.6	*	12.5	10.5	*	12.5	14.2	*
Transient Cerebral Ischemia	3	0.0	6.7	*	0.0	15.4	*	0.0	24.5	*
Stroke	13	23.1	22.0	*	23.1	28.6	*	23.1	33.1	*
Hip Fracture	14	7.1	5.9	*	21.4	10.9	*	21.4	14.5	*
Sepsis	4	0.0	29.0	*	50.0	33.7	*	50.0	37.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	20.0	5.4	*	60.0	10.7	*	60.0	14.7	*
Open Reduction of Hip Fracture	6	0.0	5.5	*	0.0	10.2	*	0.0	13.4	*
Prostatectomy	29	3.4	1.0	*	6.9	2.4	*	10.3	4.1	*
Cholecystectomy	10	10.0	2.0	*	10.0	3.6	*	10.0	4.9	*
Hysterectomy	2	0.0	0.9	*	0.0	2.2	*	0.0	3.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	174
Occupancy Rate	86
Ownership/Control	District/Authority

STAFFING: (As of September 30, 1989)

Total Number of Physicians	28
Percent of Physicians Board Certified Specialists	86
Medical Residents/Interns	0
Registered Nurses	66
Licensed Practical Nurses	14

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

LAKE VIEW COMMUNITY HOSPITAL

Medicare Provider Number: 230172

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	431	12.1	9.7	2.9	16.9	14.6	3.1	19.3	18.5	3.1
CONDITIONS:										
Acute Myocardial Infarction	19	36.8	30.3	*	42.1	34.4	*	47.4	38.2	*
Congestive Heart Failure	31	22.6	18.0	*	29.0	27.6	*	38.7	35.1	*
Pneumonia/Influenza	28	10.7	18.6	*	17.9	24.9	*	21.4	29.8	*
Chronic Obstructive Pulmonary Disease	5	60.0	13.6	*	60.0	21.6	*	60.0	27.2	*
Transient Cerebral Ischemia	3	0.0	1.7	*	0.0	3.6	*	0.0	5.8	*
Stroke	14	28.6	19.5	*	28.6	26.6	*	28.6	31.6	*
Hip Fracture	16	12.5	6.8	*	18.8	12.4	*	18.8	15.9	*
Sepsis	3	33.3	13.7	*	33.3	20.2	*	33.3	24.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	6	16.7	3.0	*	16.7	6.1	*	16.7	8.4	*
Open Reduction of Hip Fracture	11	9.1	6.5	*	18.2	12.3	*	18.2	16.1	*
Prostatectomy	17	0.0	1.1	*	0.0	2.8	*	0.0	4.9	*
Cholecystectomy	12	0.0	1.3	*	0.0	2.4	*	0.0	3.3	*
Hysterectomy	9	0.0	0.2	*	0.0	0.5	*	0.0	0.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	413	7.5	9.5	2.6	12.8	14.2	3.2	16.0	18.1	2.8
CONDITIONS:										
Acute Myocardial Infarction	10	10.0	31.8	*	10.0	36.2	*	10.0	40.4	*
Congestive Heart Failure	24	20.8	16.9	*	33.3	25.5	*	37.5	32.6	*
Pneumonia/Influenza	23	4.3	16.2	*	8.7	21.8	*	21.7	26.5	*
Chronic Obstructive Pulmonary Disease	8	0.0	9.8	*	0.0	14.7	*	0.0	19.1	*
Transient Cerebral Ischemia	2	0.0	2.2	*	0.0	4.5	*	0.0	7.2	*
Stroke	15	40.0	23.6	*	53.3	32.4	*	53.3	37.8	*
Hip Fracture	19	0.0	7.8	*	10.5	13.5	*	21.1	17.1	*
Sepsis	1	0.0	12.2	*	0.0	16.9	*	0.0	20.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	7	0.0	6.3	*	0.0	11.5	*	0.0	14.8	*
Open Reduction of Hip Fracture	11	0.0	7.6	*	18.2	13.8	*	36.4	17.7	*
Prostatectomy	20	0.0	1.2	*	0.0	3.1	*	0.0	5.3	*
Cholecystectomy	10	0.0	2.2	*	0.0	4.2	*	0.0	5.6	*
Hysterectomy	7	0.0	2.0	*	0.0	3.4	*	0.0	4.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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LakeView
COMMUNITY HOSPITAL

P.O. Box 209 • 408 Hazen Street • Paw Paw, Michigan 49079-0209 • 616 657-3141

MEDICARE PROVIDER NUMBER:23-1072

January 7, 1991

Attention: Mrs. Sandra Kappert
Health Standards and Quality Bureau
Health Care Financing Administration
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Mrs. Kappert:

Lake View Community Hospital has extensively reviewed the statistics released by Health Care Financing Administration pertaining to institutional mortality rates. Upon reviewing each category listed on the morality rates table we find it difficult to draw conclusions to the data presented to us based on our few cases in each category being analyzed.

In some instances, the Health Care Financing Administration's use of the primary diagnosis to place the case in a category for cause of death is misleading. For example: in one case the principal diagnosis was the reason for hospitalization, but the actual cause of death was the underlying comorbid condition and this is not reflected in the category in which it was listed.

Overall, we believe these statistics are continuing evidence that Lake View Community Hospital is successfully striving to improve the quality of care given to every patient. These statistics and the cases they represent will be used in our ongoing quality assurance program which includes mortality review, in an effort to ensure that we are doing everything we can to improve the quality of life for each and every patient we encounter.

Sincerely,

James R Phillippe

James R. Phillippe
Administrator
Medicare Provider Number: 23-0172

JRP/je

LAKESHORE COMMUNITY HOSPITAL

72 S State St
Shelby, MI 49455

Medicare Provider Number: 230171

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	137	5.8	9.6	3.9	12.4	15.0	3.7	17.5	19.3	4.0
CONDITIONS:										
Acute Myocardial Infarction	4	25.0	28.7	*	50.0	33.0	*	50.0	37.3	*
Congestive Heart Failure	15	6.7	19.3	*	20.0	30.1	*	33.3	38.3	*
Pneumonia/Influenza	7	0.0	16.1	*	0.0	21.9	*	14.3	26.6	*
Chronic Obstructive Pulmonary Disease	2	0.0	13.8	*	50.0	22.5	*	50.0	28.9	*
Transient Cerebral Ischemia	5	0.0	1.8	*	0.0	4.0	*	0.0	6.3	*
Stroke	8	12.5	21.4	*	37.5	26.9	*	50.0	31.3	*
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	6	0.0	1.0	*	0.0	2.3	*	0.0	3.9	*
Cholecystectomy	7	14.3	3.2	*	14.3	6.6	*	28.6	9.1	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	35
Occupancy Rate	23
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	9
Percent of Physicians Board Certified Specialists	33
Medical Residents/Interns	(Not Available)
Registered Nurses	(Not Available)
Licensed Practical Nurses	(Not Available)

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

LAKESHORE COMMUNITY HOSPITAL

Medicare Provider Number: 230171

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	166	15.1	10.4	3.6	21.1	15.2	4.6	25.3	19.0	5.0
CONDITIONS:										
Acute Myocardial Infarction	6	50.0	25.0	*	50.0	27.3	*	50.0	30.3	*
Congestive Heart Failure	17	11.8	13.6	*	11.8	20.9	*	23.5	27.1	*
Pneumonia/Influenza	6	0.0	12.5	*	0.0	16.9	*	0.0	20.8	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	3	0.0	2.1	*	0.0	4.3	*	0.0	6.8	*
Stroke	10	40.0	25.7	*	60.0	33.1	*	60.0	38.0	*
Hip Fracture	0									
Sepsis	6	16.7	27.2	*	33.3	33.5	*	50.0	39.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	6	0.0	2.9	*	0.0	5.7	*	0.0	7.8	*
Hysterectomy	4	25.0	6.7	*	25.0	10.8	*	25.0	14.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	147	13.6	13.6	2.8	21.1	18.8	3.9	23.1	23.1	4.1
CONDITIONS:										
Acute Myocardial Infarction	5	60.0	28.6	*	60.0	31.3	*	60.0	34.7	*
Congestive Heart Failure	6	33.3	14.1	*	50.0	20.8	*	50.0	26.9	*
Pneumonia/Influenza	7	14.3	17.8	*	28.6	23.6	*	28.6	28.5	*
Chronic Obstructive Pulmonary Disease	1	0.0	3.5	*	0.0	5.7	*	0.0	8.2	*
Transient Cerebral Ischemia	6	0.0	1.3	*	0.0	2.8	*	0.0	4.4	*
Stroke	5	0.0	32.6	*	20.0	38.5	*	20.0	43.3	*
Hip Fracture	1	0.0	7.6	*	0.0	17.6	*	0.0	26.5	*
Sepsis	2	50.0	27.1	*	50.0	34.2	*	50.0	41.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	7.0	*	0.0	16.5	*	0.0	25.2	*
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	3	0.0	3.7	*	0.0	6.7	*	0.0	8.3	*
Hysterectomy	1	0.0	2.9	*	0.0	5.9	*	0.0	7.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

LANSING GENERAL HOSPITAL

2800 Devonshire
Lansing, MI 48909

Medicare Provider Number: 230167

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,365	9.3	9.1	0.8	14.6	13.8	1.2	19.0	17.7	1.6
CONDITIONS:										
Acute Myocardial Infarction	53	18.9	23.9	8.5	22.6	27.2	7.4	30.2	30.5	6.4
Congestive Heart Failure	63	20.6	15.2	8.0	36.5	23.8	8.7	38.1	30.6	7.1
Pneumonia/Influenza	68	19.1	16.7	6.4	26.5	22.8	7.8	30.9	27.5	8.8
Chronic Obstructive Pulmonary Disease	45	4.4	6.5	*	6.7	12.0	*	11.1	16.8	*
Transient Cerebral Ischemia	21	0.0	1.8	*	4.8	4.1	*	4.8	6.8	*
Stroke	36	13.9	18.5	*	13.9	25.1	*	16.7	29.3	*
Hip Fracture	31	3.2	6.6	*	9.7	11.9	*	9.7	15.6	*
Sepsis	13	15.4	29.0	*	15.4	34.9	*	15.4	40.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	12	0.0	1.7	*	0.0	3.6	*	8.3	5.4	*
Carotid Endarterectomy	5	0.0	0.8	*	0.0	1.5	*	0.0	2.1	*
Hip Replacement/Reconstruction	17	0.0	3.4	*	5.9	6.5	*	5.9	8.7	*
Open Reduction of Hip Fracture	21	0.0	5.7	*	4.8	10.9	*	4.8	14.5	*
Prostatectomy	32	3.1	0.5	*	6.3	1.2	*	6.3	2.0	*
Cholecystectomy	32	0.0	2.5	*	6.3	4.5	*	6.3	5.8	*
Hysterectomy	3	0.0	0.2	*	0.0	0.4	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	231
Occupancy Rate	51
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	129
Percent of Physicians Board Certified Specialists	48
Medical Residents/Interns	33
Registered Nurses	189
Licensed Practical Nurses	85

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

LANSING GENERAL HOSPITAL

Medicare Provider Number: 230167

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,306	10.7	8.6	1.1	15.9	12.9	1.2	19.4	16.4	1.3
CONDITIONS:										
Acute Myocardial Infarction	52	34.6	24.8	7.2	38.5	28.2	8.4	38.5	31.7	9.7
Congestive Heart Failure	54	20.4	15.0	7.6	25.9	22.8	9.9	37.0	29.4	12.3
Pneumonia/Influenza	64	17.2	17.8	4.8	25.0	24.0	5.6	28.1	28.6	5.7
Chronic Obstructive Pulmonary Disease	27	7.4	8.0	*	7.4	13.6	*	7.4	18.2	*
Transient Cerebral Ischemia	26	3.8	1.7	*	7.7	3.8	*	11.5	6.0	*
Stroke	46	23.9	21.2	*	41.3	28.0	*	41.3	32.5	*
Hip Fracture	34	5.9	5.5	*	20.6	10.3	*	23.5	13.6	*
Sepsis	21	38.1	25.5	*	47.6	33.1	*	47.6	39.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	6	50.0	22.1	*	66.7	26.7	*	66.7	31.2	*
Carotid Endarterectomy	1	0.0	1.3	*	0.0	2.3	*	0.0	3.5	*
Hip Replacement/Reconstruction	20	5.0	3.1	*	15.0	6.2	*	15.0	8.4	*
Open Reduction of Hip Fracture	17	5.9	5.2	*	23.5	10.2	*	29.4	13.6	*
Prostatectomy	39	0.0	0.6	*	5.1	1.6	*	10.3	2.7	*
Cholecystectomy	38	2.6	1.3	*	2.6	2.2	*	5.3	3.0	*
Hysterectomy	3	0.0	0.1	*	0.0	0.1	*	0.0	0.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,179	10.6	9.4	1.1	16.5	14.0	1.7	19.7	17.7	1.8
CONDITIONS:										
Acute Myocardial Infarction	42	21.4	26.5	*	21.4	29.5	*	26.2	32.7	*
Congestive Heart Failure	57	15.8	15.8	4.8	26.3	23.6	7.4	29.8	30.3	6.1
Pneumonia/Influenza	58	13.8	17.8	6.5	22.4	23.7	5.7	27.6	28.4	6.1
Chronic Obstructive Pulmonary Disease	25	8.0	9.4	*	12.0	16.1	*	16.0	21.0	*
Transient Cerebral Ischemia	30	3.3	2.1	*	6.7	4.4	*	13.3	6.8	*
Stroke	49	26.5	20.4	*	36.7	27.3	*	42.9	31.7	*
Hip Fracture	28	3.6	6.5	*	7.1	12.4	*	10.7	16.3	*
Sepsis	13	30.8	34.2	*	53.8	42.1	*	53.8	48.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	18	11.1	4.8	*	22.2	8.5	*	22.2	11.5	*
Carotid Endarterectomy	4	0.0	1.1	*	0.0	2.0	*	0.0	2.9	*
Hip Replacement/Reconstruction	20	0.0	2.3	*	0.0	4.5	*	0.0	6.1	*
Open Reduction of Hip Fracture	19	5.3	5.7	*	5.3	11.4	*	10.5	15.4	*
Prostatectomy	41	2.4	0.6	*	2.4	1.5	*	2.4	2.7	*
Cholecystectomy	28	0.0	2.0	*	3.6	3.3	*	3.6	4.0	*
Hysterectomy	5	0.0	1.0	*	0.0	2.2	*	0.0	3.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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Lansing General
Hospital

January 15, 1991

Mrs. Sandra Kappert
Health Standards and Quality Bureau
Health Care Financing Administration
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Mrs. Kappert:

Thank you for the opportunity to respond to the hospital-specific mortality rates as reported by the Health Care Financing Administration (HCFA) to Lansing General Hospital.

It is our understanding that the methodology utilized by HCFA has been refined, utilizing a survival model to estimate probability of death. Lansing General Hospital supports the refinement of this methodology and any further efforts in this regard. However, we would stress that these statistics, while useful in identifying areas for further investigation, do not serve to identify underlying causes for varying rates between health care institutions. Review of actual care rendered is a more accurate portrayal of the quality of care provided.

As such, we believe that the mortality data is not a simple index of a hospital's performance, nor is it an accurate predictor of the quality of care administered. Mortality data does, however, serve to assess patient care as part of an ongoing utilization review and quality assessment program. In that regard, Lansing General Hospital will continue to use the data as a supplement to its UR/QA review process.

Lansing General Hospital applauds all efforts to assess patient care and will continue to integrate pertinent data obtained from this study into our internal utilization review and quality management programs.

Sincerely,

Robert E. Miller
President

dbc

Lansing General
Hospital, Osteopathic
2727 S. Pennsylvania
Lansing, MI. 48910-3490
(517)372-8220

LAPEER REGIONAL HOSPITAL

1375 N Main St
Lapeer, MI 48446

Medicare Provider Number: 230193

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,071	10.1	10.3	1.8	16.4	15.0	1.8	19.7	18.7	1.7
CONDITIONS:										
Acute Myocardial Infarction	44	22.7	25.0	*	29.5	28.2	*	29.5	31.6	*
Congestive Heart Failure	72	23.6	15.6	6.6	33.3	23.9	9.1	38.9	30.6	9.4
Pneumonia/Influenza	40	7.5	16.0	*	10.0	21.7	*	15.0	26.2	*
Chronic Obstructive Pulmonary Disease	14	0.0	7.3	*	7.1	11.9	*	14.3	16.1	*
Transient Cerebral Ischemia	16	0.0	1.3	*	6.3	2.9	*	6.3	4.7	*
Stroke	52	13.5	20.0	9.2	21.2	26.8	8.9	28.8	31.2	6.7
Hip Fracture	38	5.3	6.4	*	15.8	12.0	*	18.4	15.9	*
Sepsis	15	0.0	25.6	*	6.7	33.4	*	20.0	39.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	8	0.0	2.5	*	0.0	5.3	*	12.5	8.0	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	26	11.5	4.5	*	19.2	9.1	*	19.2	12.5	*
Open Reduction of Hip Fracture	14	0.0	6.9	*	14.3	13.1	*	21.4	17.4	*
Prostatectomy	66	0.0	1.1	2.2	4.5	2.8	2.4	9.1	4.7	3.5
Cholecystectomy	30	3.3	2.1	*	3.3	3.4	*	3.3	4.4	*
Hysterectomy	13	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	182
Occupancy Rate	55
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	81
Percent of Physicians Board Certified Specialists	57
Medical Residents/Interns	0
Registered Nurses	139
Licensed Practical Nurses	40

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

LAPEER REGIONAL HOSPITAL

Medicare Provider Number: 230193

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,027	14.2	10.9	1.5	20.2	15.8	2.1	22.9	19.6	1.7
CONDITIONS:										
Acute Myocardial Infarction	45	26.7	31.2	*	28.9	34.6	*	33.3	38.0	*
Congestive Heart Failure	54	29.6	17.0	8.1	42.6	25.1	8.7	42.6	31.8	7.5
Pneumonia/Influenza	42	35.7	17.5	*	38.1	23.6	*	42.9	28.4	*
Chronic Obstructive Pulmonary Disease	12	8.3	10.0	*	8.3	16.1	*	8.3	21.0	*
Transient Cerebral Ischemia	29	0.0	1.9	*	3.4	4.1	*	13.8	6.5	*
Stroke	52	25.0	20.7	11.6	36.5	27.6	14.0	40.4	32.2	13.7
Hip Fracture	25	0.0	5.7	*	8.0	10.7	*	16.0	14.2	*
Sepsis	20	25.0	28.6	*	25.0	35.9	*	25.0	41.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	11	27.3	7.3	*	36.4	10.5	*	45.5	13.2	*
Carotid Endarterectomy	1	0.0	1.6	*	0.0	2.6	*	0.0	3.7	*
Hip Replacement/Reconstruction	20	0.0	3.5	*	0.0	6.9	*	10.0	9.3	*
Open Reduction of Hip Fracture	10	0.0	5.9	*	20.0	11.6	*	20.0	15.7	*
Prostatectomy	47	2.1	0.8	*	6.4	2.1	*	6.4	3.5	*
Cholecystectomy	25	0.0	3.6	*	4.0	6.6	*	4.0	8.8	*
Hysterectomy	14	0.0	0.5	*	0.0	1.1	*	0.0	1.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,078	10.5	10.3	1.0	16.6	14.9	1.6	20.3	18.6	1.7
CONDITIONS:										
Acute Myocardial Infarction	54	27.8	31.7	8.4	35.2	34.6	8.6	35.2	37.9	8.0
Congestive Heart Failure	59	25.4	19.0	7.3	39.0	27.8	11.6	45.8	34.8	11.6
Pneumonia/Influenza	47	10.6	16.7	*	21.3	22.2	*	25.5	26.7	*
Chronic Obstructive Pulmonary Disease	21	0.0	5.6	*	0.0	10.8	*	4.8	15.5	*
Transient Cerebral Ischemia	31	0.0	1.8	*	3.2	4.1	*	9.7	6.4	*
Stroke	44	29.5	23.4	*	40.9	30.7	*	50.0	35.4	*
Hip Fracture	28	10.7	7.5	*	14.3	13.3	*	25.0	17.0	*
Sepsis	22	36.4	22.9	*	45.5	31.7	*	45.5	37.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	13	0.0	2.8	*	0.0	5.9	*	0.0	9.0	*
Carotid Endarterectomy	1	0.0	3.2	*	0.0	5.9	*	0.0	8.8	*
Hip Replacement/Reconstruction	20	5.0	5.0	*	5.0	9.3	*	15.0	12.1	*
Open Reduction of Hip Fracture	14	7.1	6.5	*	14.3	12.2	*	21.4	15.9	*
Prostatectomy	45	0.0	0.8	*	0.0	1.9	*	0.0	3.2	*
Cholecystectomy	16	6.3	2.9	*	6.3	5.4	*	12.5	7.5	*
Hysterectomy	4	0.0	0.6	*	0.0	1.4	*	0.0	2.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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Lapeer
Regional
Hospital

PROVIDER #230193

LAPEER REGIONAL HOSPITAL
LAPEER, MICHIGAN

COMMENT ON THE 1989 HCFA MORTALITY DATA
PROVIDER #230193

COMMENTS:

Lapeer Regional Hospital has reviewed the recent release of the 1989 Mortality Data. As in the three previous releases, the data provided by HCFA does not entirely correlate with the mortality files at LRH. Although we find the discrepancy somewhat annoying, we acknowledge the usefulness of the data in helping the Quality Assurance Committee identify areas for additional attention for improving patient care. Based upon our analysis of the observed mortality rate and the standard deviation for each category, LRH mortalities do not significantly deviate from the predicted rate. As stated in previous responses to the mortality data for 1986,1987 and 1988, LRH is a sole community acute care facility that is strategically positioned such that it serves many from surrounding rural areas. We are responsible for providing a continuum of care from birth to death for patients of all ages, economic and social class, and with all diagnoses with any prognosis.

1375 N. Main
Lapeer, Michigan 48446
313/664-8511

LEE MEMORIAL HOSPITAL

420 West High Street
Dowagiac, MI 49047

Medicare Provider Number: 230199

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	471	8.7	10.2	2.1	12.7	15.3	2.8	17.6	19.2	2.3
CONDITIONS:										
Acute Myocardial Infarction	10	20.0	38.4	*	20.0	41.2	*	40.0	44.7	*
Congestive Heart Failure	44	11.4	16.6	*	20.5	25.1	*	34.1	32.0	*
Pneumonia/Influenza	33	24.2	16.8	*	27.3	22.7	*	27.3	27.4	*
Chronic Obstructive Pulmonary Disease	11	0.0	4.2	*	0.0	8.1	*	0.0	11.9	*
Transient Cerebral Ischemia	2	0.0	1.4	*	0.0	3.1	*	0.0	4.8	*
Stroke	14	14.3	22.2	*	21.4	28.7	*	42.9	33.4	*
Hip Fracture	11	9.1	7.4	*	9.1	12.8	*	18.2	16.1	*
Sepsis	3	33.3	37.9	*	33.3	48.1	*	33.3	55.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	22.9	*	0.0	29.4	*	100.0	31.3	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	5.1	*	0.0	9.7	*	0.0	12.8	*
Open Reduction of Hip Fracture	7	14.3	7.4	*	14.3	13.2	*	28.6	16.7	*
Prostatectomy	18	0.0	1.1	*	0.0	2.5	*	0.0	4.2	*
Cholecystectomy	19	5.3	2.0	*	5.3	3.2	*	5.3	4.1	*
Hysterectomy	6	0.0	1.7	*	0.0	3.4	*	0.0	4.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	63
Occupancy Rate	43
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	14
Percent of Physicians Board Certified Specialists	43
Medical Residents/Interns	0
Registered Nurses	56
Licensed Practical Nurses	8

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

LEE MEMORIAL HOSPITAL

Medicare Provider Number: 230199

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	480	10.4	11.4	2.2	17.1	16.8	2.4	20.2	20.8	1.9
CONDITIONS:										
Acute Myocardial Infarction	11	0.0	35.2	*	18.2	38.9	*	18.2	43.2	*
Congestive Heart Failure	37	13.5	18.5	*	32.4	27.5	*	37.8	34.7	*
Pneumonia/Influenza	40	15.0	16.0	*	20.0	21.6	*	25.0	26.0	*
Chronic Obstructive Pulmonary Disease	1	0.0	4.5	*	0.0	8.3	*	0.0	11.6	*
Transient Cerebral Ischemia	5	0.0	2.0	*	0.0	4.4	*	0.0	7.1	*
Stroke	17	52.9	25.2	*	64.7	31.9	*	64.7	37.0	*
Hip Fracture	16	0.0	7.0	*	12.5	12.7	*	18.8	16.1	*
Sepsis	12	0.0	32.9	*	16.7	42.6	*	25.0	49.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	5	0.0	5.6	*	0.0	10.0	*	20.0	13.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	7	0.0	6.5	*	0.0	12.1	*	14.3	15.4	*
Open Reduction of Hip Fracture	5	0.0	5.8	*	20.0	11.0	*	20.0	14.6	*
Prostatectomy	15	0.0	1.5	*	0.0	3.8	*	0.0	6.4	*
Cholecystectomy	15	6.7	5.3	*	6.7	9.7	*	13.3	12.1	*
Hysterectomy	3	0.0	0.3	*	0.0	0.5	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	482	8.1	10.0	1.7	14.1	14.8	1.7	18.0	18.6	1.8
CONDITIONS:										
Acute Myocardial Infarction	14	42.9	35.9	*	42.9	39.6	*	42.9	43.7	*
Congestive Heart Failure	30	6.7	20.7	*	23.3	30.1	*	36.7	37.5	*
Pneumonia/Influenza	28	14.3	15.3	*	21.4	20.7	*	21.4	25.0	*
Chronic Obstructive Pulmonary Disease	12	0.0	4.2	*	0.0	8.1	*	0.0	11.6	*
Transient Cerebral Ischemia	4	0.0	2.0	*	0.0	4.5	*	25.0	7.2	*
Stroke	16	25.0	24.6	*	37.5	30.8	*	43.8	35.4	*
Hip Fracture	12	8.3	7.3	*	8.3	13.0	*	25.0	16.5	*
Sepsis	4	25.0	29.3	*	25.0	35.8	*	25.0	41.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	9.5	*	0.0	14.4	*	0.0	17.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	0.0	5.9	*	0.0	11.4	*	33.3	15.1	*
Open Reduction of Hip Fracture	8	12.5	6.8	*	12.5	12.4	*	25.0	15.9	*
Prostatectomy	11	0.0	1.4	*	0.0	3.4	*	18.2	5.7	*
Cholecystectomy	15	0.0	3.3	*	6.7	6.1	*	13.3	8.0	*
Hysterectomy	2	0.0	6.8	*	0.0	14.7	*	0.0	20.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

LEELANAU MEMORIAL HOSPITAL

South High St
Northport, MI 49670

Medicare Provider Number: 230107

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	137	4.4	7.5	3.4	9.5	12.1	4.3	13.9	15.9	3.9
CONDITIONS:										
Acute Myocardial Infarction	1	0.0	30.1	*	0.0	35.3	*	0.0	40.2	*
Congestive Heart Failure	8	0.0	14.5	*	25.0	21.8	*	37.5	28.0	*
Pneumonia/Influenza	14	0.0	12.6	*	0.0	17.2	*	7.1	21.0	*
Chronic Obstructive Pulmonary Disease	1	0.0	6.3	*	0.0	11.7	*	0.0	16.6	*
Transient Cerebral Ischemia	1	0.0	1.3	*	0.0	2.5	*	0.0	3.9	*
Stroke	3	0.0	16.8	*	33.3	23.5	*	33.3	27.4	*
Hip Fracture	3	33.3	9.6	*	66.7	19.8	*	66.7	27.2	*
Sepsis	3	0.0	22.5	*	0.0	29.0	*	0.0	34.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	1	0.0	2.7	*	0.0	5.6	*	0.0	8.0	*
Prostatectomy	4	0.0	0.6	*	0.0	1.5	*	0.0	2.6	*
Cholecystectomy	2	0.0	1.0	*	0.0	1.7	*	0.0	2.3	*
Hysterectomy	1	0.0	0.3	*	0.0	0.4	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	90
Occupancy Rate	68
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	36
Percent of Physicians Board Certified Specialists	72
Medical Residents/Interns	0
Registered Nurses	15
Licensed Practical Nurses	12

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

LEELANAU MEMORIAL HOSPITAL

Medicare Provider Number: 230107

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	151	9.9	8.7	2.6	14.6	12.9	3.2	15.2	16.3	3.5
CONDITIONS:										
Acute Myocardial Infarction	2	50.0	31.3	*	50.0	36.6	*	50.0	41.4	*
Congestive Heart Failure	9	22.2	14.5	*	22.2	22.3	*	22.2	28.7	*
Pneumonia/Influenza	16	31.3	18.4	*	43.8	24.8	*	50.0	29.7	*
Chronic Obstructive Pulmonary Disease	1	0.0	8.2	*	0.0	12.6	*	0.0	16.8	*
Transient Cerebral Ischemia	0									
Stroke	3	0.0	19.3	*	0.0	27.7	*	0.0	32.6	*
Hip Fracture	1	0.0	6.8	*	0.0	11.9	*	0.0	14.7	*
Sepsis	1	0.0	24.4	*	0.0	34.4	*	0.0	40.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	6.4	*	0.0	11.7	*	0.0	14.7	*
Open Reduction of Hip Fracture	0									
Prostatectomy	3	0.0	0.7	*	0.0	1.5	*	0.0	2.5	*
Cholecystectomy	5	0.0	3.1	*	0.0	5.5	*	0.0	7.0	*
Hysterectomy	1	0.0	0.2	*	0.0	0.3	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	135	8.1	6.3	2.8	13.3	10.5	3.6	16.3	14.1	4.1
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	7	28.6	14.7	*	57.1	22.8	*	57.1	29.8	*
Pneumonia/Influenza	13	30.8	19.5	*	30.8	26.7	*	38.5	31.9	*
Chronic Obstructive Pulmonary Disease	4	0.0	7.8	*	0.0	13.7	*	25.0	18.4	*
Transient Cerebral Ischemia	4	0.0	1.8	*	0.0	4.1	*	0.0	6.6	*
Stroke	2	0.0	14.8	*	0.0	20.7	*	0.0	24.9	*
Hip Fracture	1	0.0	2.5	*	0.0	4.8	*	0.0	6.5	*
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	1	0.0	2.1	*	0.0	4.3	*	0.0	6.0	*
Prostatectomy	3	0.0	0.6	*	33.3	1.5	*	33.3	2.6	*
Cholecystectomy	1	0.0	1.1	*	0.0	2.0	*	0.0	2.7	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MACKINAC STRAITS HOSPITAL & HLTH CENTER

220 Burdette St
St Ignace, MI 49781

Medicare Provider Number: 230162

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	35	14.3	15.8	*	22.9	22.0	*	28.6	26.8	*
CONDITIONS:										
Acute Myocardial Infarction	1	0.0	12.5	*	0.0	16.0	*	0.0	19.4	*
Congestive Heart Failure	3	0.0	17.6	*	66.7	26.5	*	66.7	33.9	*
Pneumonia/Influenza	6	33.3	27.9	*	50.0	36.6	*	50.0	42.7	*
Chronic Obstructive Pulmonary Disease	3	0.0	5.4	*	0.0	11.1	*	33.3	16.7	*
Transient Cerebral Ischemia	0									
Stroke	3	66.7	26.9	*	66.7	36.3	*	66.7	41.4	*
Hip Fracture	0									
Sepsis	1	0.0	26.9	*	0.0	32.6	*	0.0	39.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	75
Occupancy Rate	(Not Available)
Ownership/Control	District/Authority

STAFFING: (As of September 30, 1989)

Total Number of Physicians	2
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	(Not Available)
Registered Nurses	(Not Available)
Licensed Practical Nurses	(Not Available)

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MACKINAC STRAITS HOSPITAL & HLTH CENTER

Medicare Provider Number: 230162

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	97	6.2	11.6	4.0	10.3	16.9	5.4	11.3	21.1	6.2
CONDITIONS:										
Acute Myocardial Infarction	10	10.0	23.1	*	10.0	27.4	*	10.0	31.1	*
Congestive Heart Failure	4	25.0	18.3	*	50.0	28.1	*	50.0	35.7	*
Pneumonia/Influenza	11	9.1	14.6	*	9.1	20.3	*	18.2	24.4	*
Chronic Obstructive Pulmonary Disease	5	0.0	5.5	*	0.0	9.5	*	0.0	13.5	*
Transient Cerebral Ischemia	2	0.0	3.2	*	0.0	7.9	*	0.0	13.5	*
Stroke	2	0.0	26.8	*	0.0	37.0	*	0.0	42.5	*
Hip Fracture	0									
Sepsis	1	0.0	57.8	*	0.0	64.0	*	0.0	69.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	79	11.4	12.4	3.9	15.2	17.2	4.5	17.7	21.0	5.7
CONDITIONS:										
Acute Myocardial Infarction	4	25.0	41.6	*	50.0	45.8	*	75.0	49.8	*
Congestive Heart Failure	3	0.0	10.2	*	0.0	15.3	*	0.0	20.1	*
Pneumonia/Influenza	10	0.0	9.6	*	0.0	13.3	*	0.0	16.4	*
Chronic Obstructive Pulmonary Disease	2	0.0	8.3	*	0.0	12.3	*	0.0	16.6	*
Transient Cerebral Ischemia	1	0.0	2.8	*	0.0	5.9	*	0.0	9.3	*
Stroke	4	75.0	25.2	*	75.0	34.4	*	75.0	39.2	*
Hip Fracture	0									
Sepsis	3	66.7	50.2	*	100.0	60.3	*	100.0	67.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MACOMB HOSPITAL CENTER

11800 East Twelve Mile Road
Warren, MI 48093

Medicare Provider Number: 230195

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,665	11.7	11.7	0.6	17.1	17.1	0.8	21.0	21.1	0.9
CONDITIONS:										
Acute Myocardial Infarction	101	36.6	33.5	7.0	39.6	37.0	7.0	40.6	40.3	6.0
Congestive Heart Failure	168	18.5	15.9	5.1	28.6	23.9	7.2	35.7	30.7	7.4
Pneumonia/Influenza	46	10.9	14.8	*	13.0	20.4	*	17.4	24.4	*
Chronic Obstructive Pulmonary Disease	17	5.9	13.0	*	5.9	18.4	*	11.8	23.3	*
Transient Cerebral Ischemia	42	0.0	1.9	*	0.0	4.4	*	2.4	7.2	*
Stroke	146	22.6	18.3	7.0	29.5	25.5	6.5	32.9	29.8	6.3
Hip Fracture	44	13.6	8.8	*	25.0	14.9	*	27.3	18.6	*
Sepsis	33	33.3	28.6	*	42.4	39.2	*	48.5	45.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	1	0.0	3.6	*	0.0	5.1	*	0.0	7.0	*
Initial Pacemaker Insertion	25	0.0	2.3	*	0.0	4.7	*	0.0	6.9	*
Carotid Endarterectomy	39	0.0	1.7	*	0.0	3.2	*	2.6	4.8	*
Hip Replacement/Reconstruction	27	3.7	3.6	*	7.4	6.5	*	7.4	8.7	*
Open Reduction of Hip Fracture	31	16.1	7.8	*	32.3	13.5	*	35.5	16.9	*
Prostatectomy	98	0.0	0.6	1.0	1.0	1.4	1.3	1.0	2.4	2.0
Cholecystectomy	70	0.0	3.6	4.1	0.0	6.3	6.5	2.9	8.2	5.6
Hysterectomy	34	0.0	0.5	*	2.9	1.1	*	2.9	1.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1988

Total Beds	391
Ownership/Control	Private, Non-Profit

STAFFING:

Medical Residents/Interns	2
Registered Nurses	231
Licensed Practical Nurses	132

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	Yes
Hospice	No
Intensive Care Unit	Yes
Organ Transplant	No
Rehabilitation	Yes
Shock Trauma	No

**** Not used in calculating hospital mortality rates.**

MACOMB HOSPITAL CENTER

Medicare Provider Number: 230195

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,593	11.2	12.1	0.9	17.4	17.6	0.9	21.3	21.7	0.9
CONDITIONS:										
Acute Myocardial Infarction	114	28.9	31.5	4.8	34.2	34.7	4.5	36.0	38.2	4.9
Congestive Heart Failure	148	17.6	17.9	4.3	29.7	26.4	5.8	39.2	33.3	7.5
Pneumonia/Influenza	31	9.7	15.6	*	19.4	21.5	*	19.4	25.7	*
Chronic Obstructive Pulmonary Disease	26	11.5	15.2	*	15.4	22.2	*	23.1	28.1	*
Transient Cerebral Ischemia	60	3.3	1.9	*	5.0	3.9	*	6.7	6.3	*
Stroke	113	23.9	20.6	5.0	33.6	28.1	7.1	36.3	32.8	7.6
Hip Fracture	81	7.4	9.3	4.1	13.6	15.9	4.5	21.0	19.7	4.6
Sepsis	28	28.6	27.0	*	35.7	36.0	*	46.4	42.5	*
PROCEDURE:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	19	0.0	5.1	*	10.5	8.9	*	10.5	12.4	*
Carotid Endarterectomy	30	0.0	1.7	*	0.0	3.0	*	3.3	4.4	*
Hip Replacement/Reconstruction	30	3.3	5.7	*	6.7	10.3	*	10.0	13.1	*
Open Reduction of Hip Fracture	47	6.4	8.2	*	12.8	14.7	*	21.3	18.7	*
Prostatectomy	117	0.0	0.9	1.3	1.7	2.2	1.6	3.4	3.6	2.4
Cholecystectomy	76	0.0	2.3	2.3	2.6	4.2	2.7	3.9	5.6	2.9
Hysterectomy	25	0.0	0.6	*	0.0	1.3	*	0.0	2.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,497	12.0	12.3	0.7	18.3	18.1	0.8	22.9	22.3	0.9
CONDITIONS:										
Acute Myocardial Infarction	125	33.6	31.7	4.5	37.6	34.8	5.4	40.0	38.0	6.0
Congestive Heart Failure	168	21.4	19.2	4.7	30.4	28.2	4.2	35.7	35.4	3.8
Pneumonia/Influenza	45	13.3	16.1	*	20.0	22.6	*	31.1	27.3	*
Chronic Obstructive Pulmonary Disease	37	13.5	15.9	*	16.2	24.0	*	27.0	30.0	*
Transient Cerebral Ischemia	45	2.2	2.2	*	2.2	4.5	*	6.7	7.0	*
Stroke	146	20.5	21.1	3.5	33.6	28.6	4.5	34.9	33.2	4.0
Hip Fracture	48	8.3	8.1	*	14.6	13.6	*	20.8	17.0	*
Sepsis	32	21.9	26.1	*	28.1	35.6	*	34.4	42.2	*
PROCEDURES:										
Angioplasty	2	0.0	5.0	*	50.0	7.0	*	50.0	8.4	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	30	3.3	6.0	*	6.7	10.7	*	6.7	14.2	*
Carotid Endarterectomy	31	0.0	2.1	*	3.2	4.0	*	3.2	5.8	*
Hip Replacement/Reconstruction	24	8.3	6.2	*	8.3	10.6	*	8.3	13.3	*
Open Reduction of Hip Fracture	26	7.7	7.3	*	19.2	13.4	*	30.8	17.2	*
Prostatectomy	111	0.9	1.0	1.0	0.9	2.4	1.8	2.7	3.9	2.4
Cholecystectomy	78	1.3	2.7	2.2	5.1	4.3	3.1	5.1	5.5	3.8
Hysterectomy	26	0.0	1.1	*	3.8	2.2	*	3.8	3.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MADISON COMMUNITY HOSPITAL

30671 Stephenson Highway
Madison Heights, MI 48071

Medicare Provider Number: 230186

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	216	3.7	6.1	1.7	4.6	9.6	2.4	5.1	12.6	2.9
CONDITIONS:										
Acute Myocardial Infarction	3	0.0	19.7	*	0.0	22.5	*	0.0	25.6	*
Congestive Heart Failure	7	14.3	9.2	*	14.3	14.5	*	14.3	19.5	*
Pneumonia/Influenza	10	0.0	14.6	*	0.0	20.2	*	0.0	24.7	*
Chronic Obstructive Pulmonary Disease	3	0.0	3.1	*	0.0	5.5	*	0.0	7.8	*
Transient Cerebral Ischemia	1	0.0	1.2	*	0.0	2.6	*	0.0	4.1	*
Stroke	10	10.0	20.4	*	10.0	27.1	*	20.0	32.0	*
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	23	0.0	0.5	*	0.0	1.1	*	0.0	1.9	*
Cholecystectomy	2	0.0	2.7	*	0.0	4.9	*	0.0	7.6	*
Hysterectomy	1	0.0	0.1	*	0.0	0.1	*	0.0	0.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1988

Total Beds	48
Ownership/Control	Private, Non-Profit
STAFFING:	
Medical Residents/Interns	0
Registered Nurses	25
Licensed Practical Nurses	3

SPECIALTY SERVICES:	
Burn Unit	No
Coronary Care Unit	Yes
Hospice	No
Intensive Care Unit	Yes
Organ Transplant	No
Rehabilitation	No
Shock Trauma	No

**** Not used in calculating hospital mortality rates.**

MADISON COMMUNITY HOSPITAL

Medicare Provider Number: 230186

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	201	9.0	8.0	2.1	11.4	11.9	3.2	15.4	15.2	3.9
CONDITIONS:										
Acute Myocardial Infarction	3	33.3	33.5	*	33.3	37.1	*	66.7	41.6	*
Congestive Heart Failure	11	0.0	13.9	*	18.2	20.0	*	18.2	25.6	*
Pneumonia/Influenza	5	20.0	25.7	*	40.0	33.4	*	40.0	39.0	*
Chronic Obstructive Pulmonary Disease	1	0.0	5.4	*	0.0	9.6	*	100.0	13.6	*
Transient Cerebral Ischemia	2	0.0	0.8	*	0.0	1.7	*	0.0	2.6	*
Stroke	6	33.3	18.5	*	33.3	25.1	*	50.0	30.0	*
Hip Fracture	2	0.0	14.9	*	0.0	28.0	*	0.0	35.7	*
Sepsis	1	0.0	21.9	*	0.0	26.2	*	0.0	31.5	*
PROCEDURE:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	15	0.0	0.5	*	0.0	1.2	*	6.7	2.0	*
Cholecystectomy	5	0.0	6.3	*	20.0	10.3	*	20.0	13.5	*
Hysterectomy	1	0.0	0.1	*	0.0	0.1	*	0.0	0.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	171	9.9	7.0	3.5	12.9	10.6	3.7	15.2	13.7	3.7
CONDITIONS:										
Acute Myocardial Infarction	3	33.3	27.3	*	33.3	30.3	*	33.3	34.1	*
Congestive Heart Failure	6	16.7	15.8	*	16.7	24.8	*	16.7	32.2	*
Pneumonia/Influenza	10	20.0	14.0	*	20.0	18.5	*	20.0	22.4	*
Chronic Obstructive Pulmonary Disease	6	16.7	7.7	*	16.7	13.1	*	33.3	17.7	*
Transient Cerebral Ischemia	5	0.0	0.9	*	20.0	2.0	*	20.0	3.1	*
Stroke	3	0.0	20.7	*	33.3	27.9	*	33.3	32.8	*
Hip Fracture	1	0.0	3.7	*	0.0	6.9	*	0.0	9.3	*
Sepsis	1	0.0	21.0	*	0.0	29.5	*	0.0	34.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	10	0.0	1.0	*	10.0	2.5	*	10.0	4.4	*
Cholecystectomy	4	0.0	1.1	*	0.0	1.9	*	0.0	2.6	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MARLETTE COMMUNITY HOSPITAL

2770 Main Street
Marlette, MI 48453

Medicare Provider Number: 230082

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	219	7.8	9.6	2.3	13.2	14.7	3.0	13.7	18.5	4.0
CONDITIONS:										
Acute Myocardial Infarction	5	0.0	23.5	*	0.0	26.5	*	20.0	30.1	*
Congestive Heart Failure	13	7.7	19.4	*	30.8	30.3	*	30.8	38.6	*
Pneumonia/Influenza	12	25.0	16.2	*	33.3	21.5	*	33.3	26.0	*
Chronic Obstructive Pulmonary Disease	14	7.1	6.5	*	14.3	11.7	*	14.3	16.4	*
Transient Cerebral Ischemia	2	0.0	1.4	*	0.0	2.8	*	0.0	4.4	*
Stroke	11	9.1	23.9	*	27.3	31.4	*	27.3	36.0	*
Hip Fracture	3	0.0	5.9	*	33.3	11.5	*	33.3	15.6	*
Sepsis	4	25.0	23.8	*	25.0	30.5	*	25.0	35.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	0.9	*	0.0	2.1	*	0.0	3.3	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	2	0.0	6.2	*	50.0	12.4	*	50.0	17.0	*
Prostatectomy	11	9.1	0.9	*	9.1	2.3	*	9.1	4.1	*
Cholecystectomy	9	0.0	1.0	*	0.0	1.8	*	0.0	2.3	*
Hysterectomy	3	0.0	0.3	*	0.0	0.5	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	73
Occupancy Rate	73
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	26
Percent of Physicians Board Certified Specialists	92
Medical Residents/Interns	(Not Available)
Registered Nurses	(Not Available)
Licensed Practical Nurses	(Not Available)

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MARLETTE COMMUNITY HOSPITAL

Medicare Provider Number: 230082

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	243	7.4	9.6	3.1	10.7	14.0	4.3	14.4	17.8	5.1
CONDITIONS:										
Acute Myocardial Infarction	12	25.0	37.7	*	25.0	42.2	*	25.0	46.6	*
Congestive Heart Failure	14	14.3	17.5	*	21.4	26.1	*	42.9	33.3	*
Pneumonia/Influenza	13	23.1	14.4	*	23.1	19.4	*	23.1	23.8	*
Chronic Obstructive Pulmonary Disease	11	9.1	8.9	*	18.2	15.6	*	18.2	21.5	*
Transient Cerebral Ischemia	1	0.0	1.4	*	0.0	3.0	*	0.0	4.6	*
Stroke	9	22.2	23.6	*	22.2	29.6	*	33.3	34.1	*
Hip Fracture	5	20.0	7.8	*	20.0	13.4	*	20.0	17.2	*
Sepsis	1	0.0	7.4	*	0.0	10.1	*	0.0	13.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	2.4	*	0.0	5.0	*	0.0	7.7	*
Carotid Endarterectomy	1	0.0	1.5	*	0.0	3.0	*	0.0	4.4	*
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	4	0.0	6.3	*	0.0	11.7	*	0.0	15.7	*
Prostatectomy	21	0.0	0.5	*	0.0	1.3	*	0.0	2.2	*
Cholecystectomy	10	0.0	1.2	*	0.0	2.0	*	0.0	2.6	*
Hysterectomy	1	0.0	0.9	*	0.0	1.9	*	0.0	2.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	241	9.5	9.1	1.9	13.3	13.0	2.2	15.8	16.2	2.7
CONDITIONS:										
Acute Myocardial Infarction	12	41.7	26.7	*	41.7	29.6	*	41.7	32.6	*
Congestive Heart Failure	15	13.3	16.0	*	20.0	24.5	*	26.7	31.4	*
Pneumonia/Influenza	17	5.9	19.2	*	11.8	25.6	*	23.5	30.9	*
Chronic Obstructive Pulmonary Disease	10	10.0	15.6	*	10.0	25.2	*	30.0	32.0	*
Transient Cerebral Ischemia	2	0.0	1.2	*	0.0	2.4	*	0.0	3.7	*
Stroke	6	33.3	19.6	*	33.3	24.9	*	33.3	29.1	*
Hip Fracture	2	0.0	8.3	*	0.0	14.2	*	0.0	18.0	*
Sepsis	2	0.0	32.3	*	0.0	38.2	*	0.0	45.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	0.0	2.4	*	0.0	5.0	*	0.0	7.5	*
Carotid Endarterectomy	3	0.0	1.2	*	0.0	2.1	*	0.0	2.9	*
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	1	0.0	9.4	*	0.0	17.6	*	0.0	23.1	*
Prostatectomy	8	0.0	0.8	*	0.0	2.0	*	0.0	3.7	*
Cholecystectomy	10	10.0	1.8	*	10.0	3.1	*	10.0	3.9	*
Hysterectomy	3	33.3	0.5	*	33.3	0.8	*	33.3	1.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MARQUETTE GENERAL HOSPITAL

420 West Magnetic Street
Marquette, MI 49855

Medicare Provider Number: 230054

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,203	7.4	7.8	0.7	11.8	12.5	1.0	15.8	16.3	0.9
CONDITIONS:										
Acute Myocardial Infarction	51	15.7	22.1	8.4	15.7	26.0	8.8	17.6	29.5	10.0
Congestive Heart Failure	86	18.6	14.3	6.5	24.4	22.1	7.3	33.7	28.7	9.2
Pneumonia/Influenza	48	8.3	14.8	*	8.3	20.0	*	16.7	24.4	*
Chronic Obstructive Pulmonary Disease	27	3.7	9.5	*	11.1	16.9	*	18.5	23.2	*
Transient Cerebral Ischemia	32	0.0	1.7	*	6.3	3.7	*	12.5	5.8	*
Stroke	68	16.2	19.0	5.3	19.1	25.2	7.1	23.5	29.3	7.7
Hip Fracture	74	4.1	4.8	2.6	8.1	9.0	3.6	9.5	11.9	5.2
Sepsis	7	57.1	40.1	*	57.1	49.8	*	57.1	56.5	*
PROCEDURES:										
Angioplasty	32	0.0	2.2	*	0.0	2.8	*	0.0	3.5	*
Coronary Artery Bypass Graft	73	1.4	4.5	3.1	5.5	6.0	3.2	5.5	7.1	3.2
Initial Pacemaker Insertion	23	0.0	2.5	*	4.3	5.1	*	4.3	7.6	*
Carotid Endarterectomy	11	0.0	1.5	*	0.0	3.0	*	0.0	4.3	*
Hip Replacement/Reconstruction	98	2.0	1.9	1.7	3.1	3.6	2.5	3.1	5.0	2.9
Open Reduction of Hip Fracture	29	3.4	4.0	*	6.9	7.9	*	10.3	10.7	*
Prostatectomy	91	0.0	0.6	1.0	2.2	1.6	2.1	2.2	2.8	2.4
Cholecystectomy	55	3.6	3.2	2.7	3.6	6.1	3.8	5.5	8.4	4.3
Hysterectomy	22	0.0	0.6	*	0.0	1.3	*	0.0	2.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	307
Occupancy Rate	71
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	111
Percent of Physicians Board Certified Specialists	85
Medical Residents/Interns	16
Registered Nurses	189
Licensed Practical Nurses	78

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MARQUETTE GENERAL HOSPITAL

Medicare Provider Number: 230054

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,095	6.8	7.7	0.9	11.4	12.5	1.2	15.8	16.5	1.2
CONDITIONS:										
Acute Myocardial Infarction	45	24.4	23.7	*	26.7	27.0	*	28.9	30.5	*
Congestive Heart Failure	88	8.0	14.5	5.8	20.5	22.4	6.2	27.3	29.1	5.1
Pneumonia/Influenza	51	9.8	15.8	6.5	9.8	21.4	8.7	13.7	25.9	10.0
Chronic Obstructive Pulmonary Disease	20	0.0	11.1	*	5.0	19.0	*	10.0	25.0	*
Transient Cerebral Ischemia	38	7.9	2.3	*	7.9	5.0	*	10.5	7.8	*
Stroke	38	5.3	19.0	*	15.8	26.8	*	21.1	31.9	*
Hip Fracture	60	3.3	5.8	3.7	8.3	10.6	4.6	13.3	13.8	4.6
Sepsis	6	0.0	34.1	*	0.0	43.5	*	0.0	51.1	*
PROCEDURES:										
Angioplasty	30	0.0	2.3	*	0.0	3.2	*	0.0	4.2	*
Coronary Artery Bypass Graft	72	11.1	6.1	4.7	12.5	8.4	4.3	15.3	9.9	4.9
Initial Pacemaker Insertion	16	0.0	3.9	*	0.0	6.6	*	0.0	9.2	*
Carotid Endarterectomy	11	0.0	1.3	*	0.0	2.4	*	0.0	3.6	*
Hip Replacement/Reconstruction	61	0.0	2.4	2.8	1.6	4.6	3.9	3.3	6.1	4.0
Open Reduction of Hip Fracture	33	3.0	4.9	*	9.1	9.5	*	12.1	12.7	*
Prostatectomy	90	0.0	0.8	1.2	1.1	2.1	1.8	2.2	3.7	2.5
Cholecystectomy	39	5.1	3.8	*	7.7	6.9	*	7.7	8.8	*
Hysterectomy	26	3.8	0.9	*	3.8	1.9	*	3.8	3.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,200	8.1	7.9	0.6	12.9	12.8	0.8	16.0	16.8	0.9
CONDITIONS:										
Acute Myocardial Infarction	45	20.0	25.9	*	26.7	29.4	*	26.7	32.7	*
Congestive Heart Failure	85	12.9	17.1	4.5	17.6	26.1	6.0	25.9	33.4	6.2
Pneumonia/Influenza	52	17.3	18.2	6.1	25.0	24.7	6.0	26.9	29.8	7.7
Chronic Obstructive Pulmonary Disease	18	5.6	8.7	*	22.2	15.6	*	22.2	21.2	*
Transient Cerebral Ischemia	31	0.0	2.6	*	3.2	5.7	*	3.2	8.7	*
Stroke	55	18.2	21.2	6.9	18.2	28.0	8.6	23.6	32.5	8.8
Hip Fracture	61	3.3	6.5	4.2	9.8	11.9	4.8	11.5	15.6	7.1
Sepsis	9	33.3	37.7	*	44.4	50.7	*	55.6	59.7	*
PROCEDURES:										
Angioplasty	13	0.0	1.3	*	0.0	2.1	*	0.0	3.1	*
Coronary Artery Bypass Graft	54	3.7	5.3	4.0	5.6	7.2	4.3	5.6	8.3	4.6
Initial Pacemaker Insertion	22	0.0	2.3	*	0.0	4.8	*	0.0	7.3	*
Carotid Endarterectomy	6	0.0	1.4	*	0.0	2.4	*	0.0	3.5	*
Hip Replacement/Reconstruction	59	1.7	2.6	2.6	6.8	4.9	3.4	6.8	6.5	4.1
Open Reduction of Hip Fracture	32	0.0	5.3	*	3.1	10.6	*	6.3	14.4	*
Prostatectomy	77	2.6	1.0	1.6	3.9	2.6	2.7	6.5	4.4	3.1
Cholecystectomy	32	9.4	2.9	*	9.4	5.4	*	9.4	7.1	*
Hysterectomy	16	0.0	0.3	*	0.0	0.6	*	0.0	0.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MCKENZIE MEMORIAL HOSPITAL

120 Delaware Street
Sandusky, MI 48471

Medicare Provider Number: 230253

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	239	11.7	9.3	2.3	17.6	13.8	2.9	20.1	17.4	2.9
CONDITIONS:										
Acute Myocardial Infarction	16	37.5	31.4	*	37.5	35.0	*	37.5	38.6	*
Congestive Heart Failure	13	23.1	12.8	*	30.8	20.4	*	46.2	26.9	*
Pneumonia/Influenza	13	23.1	12.9	*	23.1	17.3	*	23.1	21.3	*
Chronic Obstructive Pulmonary Disease	9	11.1	5.2	*	11.1	9.6	*	11.1	13.7	*
Transient Cerebral Ischemia	4	0.0	2.0	*	0.0	4.4	*	0.0	7.0	*
Stroke	6	33.3	21.0	*	33.3	26.1	*	33.3	30.1	*
Hip Fracture	2	0.0	4.9	*	0.0	8.6	*	0.0	11.4	*
Sepsis	3	33.3	25.3	*	33.3	34.4	*	33.3	39.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	2	0.0	4.3	*	0.0	7.9	*	0.0	10.6	*
Prostatectomy	14	0.0	0.9	*	7.1	2.2	*	7.1	3.7	*
Cholecystectomy	5	0.0	1.4	*	0.0	2.8	*	0.0	3.8	*
Hysterectomy	1	0.0	0.8	*	0.0	1.4	*	0.0	1.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	31
Occupancy Rate	32
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	12
Percent of Physicians Board Certified Specialists	58
Medical Residents/Interns	0
Registered Nurses	23
Licensed Practical Nurses	10

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MCKENZIE MEMORIAL HOSPITAL

Medicare Provider Number: 230253

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	263	14.1	11.4	3.0	17.9	16.8	2.8	23.2	21.0	3.4
CONDITIONS:										
Acute Myocardial Infarction	19	57.9	30.0	*	57.9	32.7	*	63.2	36.1	*
Congestive Heart Failure	37	21.6	16.1	*	27.0	24.3	*	35.1	31.0	*
Pneumonia/Influenza	10	20.0	19.9	*	20.0	26.9	*	30.0	32.1	*
Chronic Obstructive Pulmonary Disease	3	33.3	11.1	*	33.3	19.7	*	33.3	26.4	*
Transient Cerebral Ischemia	6	0.0	4.1	*	16.7	9.6	*	33.3	15.4	*
Stroke	7	14.3	17.1	*	14.3	24.5	*	28.6	29.4	*
Hip Fracture	4	25.0	12.6	*	25.0	20.6	*	50.0	25.5	*
Sepsis	3	0.0	26.4	*	0.0	33.7	*	33.3	40.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	23.9	*	0.0	38.4	*	100.0	45.7	*
Open Reduction of Hip Fracture	2	0.0	7.3	*	0.0	11.9	*	0.0	15.1	*
Prostatectomy	0									
Cholecystectomy	5	0.0	3.6	*	40.0	7.0	*	40.0	9.8	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	296	12.8	9.4	3.0	16.2	14.5	2.9	20.9	18.6	3.6
CONDITIONS:										
Acute Myocardial Infarction	12	41.7	28.1	*	41.7	31.3	*	50.0	34.9	*
Congestive Heart Failure	30	33.3	15.5	*	36.7	22.8	*	43.3	29.3	*
Pneumonia/Influenza	10	0.0	11.2	*	0.0	15.5	*	10.0	19.1	*
Chronic Obstructive Pulmonary Disease	8	25.0	11.0	*	37.5	17.9	*	37.5	22.9	*
Transient Cerebral Ischemia	1	0.0	1.1	*	0.0	2.3	*	0.0	3.5	*
Stroke	7	28.6	19.6	*	28.6	27.2	*	28.6	32.3	*
Hip Fracture	7	14.3	6.9	*	28.6	13.6	*	28.6	18.5	*
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	0.0	1.9	*	0.0	3.8	*	0.0	5.2	*
Open Reduction of Hip Fracture	5	0.0	4.4	*	20.0	8.5	*	20.0	11.5	*
Prostatectomy	11	0.0	0.7	*	0.0	1.6	*	0.0	2.5	*
Cholecystectomy	11	0.0	3.4	*	0.0	6.8	*	9.1	9.6	*
Hysterectomy	1	0.0	0.5	*	0.0	0.9	*	0.0	1.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MCLAREN GENERAL HOSPITAL

401 Ballenger Hwy
Flint, MI 48502

Medicare Provider Number: 230141

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,181	8.0	8.1	0.5	12.5	12.2	0.6	16.1	15.4	0.9
CONDITIONS:										
Acute Myocardial Infarction	118	26.3	26.3	4.3	30.5	29.6	4.3	32.2	32.9	4.4
Congestive Heart Failure	168	19.0	15.1	4.3	26.8	23.3	5.2	32.7	30.1	5.7
Pneumonia/Influenza	97	16.5	16.1	3.9	24.7	21.9	4.8	29.9	26.5	7.4
Chronic Obstructive Pulmonary Disease	39	2.6	7.2	*	10.3	12.3	*	12.8	17.1	*
Transient Cerebral Ischemia	55	1.8	1.8	1.8	3.6	4.0	3.7	3.6	6.5	5.4
Stroke	133	14.3	20.6	5.4	22.6	27.8	5.7	30.1	32.6	4.6
Hip Fracture	54	5.6	6.8	3.6	13.0	12.2	4.9	18.5	15.8	6.7
Sepsis	27	14.8	30.9	*	37.0	40.4	*	37.0	47.7	*
PROCEDURES:										
Angioplasty	35	2.9	2.4	*	2.9	3.0	*	2.9	3.8	*
Coronary Artery Bypass Graft	114	5.3	5.1	2.1	7.0	7.3	2.9	7.0	8.7	2.9
Initial Pacemaker Insertion	19	0.0	3.5	*	5.3	7.1	*	10.5	10.7	*
Carotid Endarterectomy	64	0.0	1.4	2.5	3.1	2.6	3.0	4.7	4.0	4.5
Hip Replacement/Reconstruction	81	0.0	2.4	2.7	1.2	4.6	3.7	4.9	6.1	2.9
Open Reduction of Hip Fracture	26	11.5	6.4	*	23.1	12.2	*	30.8	16.4	*
Prostatectomy	164	1.2	0.7	1.1	1.8	1.6	1.4	2.4	2.8	1.6
Cholecystectomy	76	1.3	2.3	1.9	2.6	3.7	2.4	3.9	4.7	2.8
Hysterectomy	30	0.0	0.4	*	0.0	0.9	*	0.0	1.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	377
Occupancy Rate	76
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	206
Percent of Physicians Board Certified Specialists	65
Medical Residents/Interns	29
Registered Nurses	419
Licensed Practical Nurses	154

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	Yes
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MCLAREN GENERAL HOSPITAL

Medicare Provider Number: 230141

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,067	8.2	8.8	0.7	12.4	13.1	0.7	16.1	16.5	0.7
CONDITIONS:										
Acute Myocardial Infarction	105	28.6	26.4	5.6	36.2	29.4	6.3	40.0	32.7	7.2
Congestive Heart Failure	152	19.1	16.4	3.5	30.3	25.0	6.4	38.8	32.1	6.7
Pneumonia/Influenza	81	13.6	17.7	4.5	16.0	23.7	5.6	19.8	28.4	6.1
Chronic Obstructive Pulmonary Disease	42	14.3	10.9	*	21.4	17.8	*	21.4	23.2	*
Transient Cerebral Ischemia	51	3.9	2.4	*	3.9	5.2	*	7.8	8.2	*
Stroke	118	16.1	23.4	5.4	28.0	30.9	4.5	29.7	36.1	6.7
Hip Fracture	54	7.4	6.6	3.5	11.1	11.5	4.4	14.8	14.4	4.8
Sepsis	20	35.0	26.0	*	45.0	33.8	*	50.0	40.0	*
PROCEDURES:										
Angioplasty	38	0.0	3.2	*	2.6	4.2	*	2.6	5.2	*
Coronary Artery Bypass Graft	90	3.3	5.7	4.2	4.4	7.7	5.0	4.4	8.9	5.3
Initial Pacemaker Insertion	17	0.0	4.7	*	0.0	9.5	*	0.0	14.0	*
Carotid Endarterectomy	56	0.0	1.4	2.2	0.0	2.5	3.9	3.6	3.7	3.4
Hip Replacement/Reconstruction	77	5.2	2.8	3.2	6.5	5.1	3.7	7.8	6.7	3.8
Open Reduction of Hip Fracture	26	0.0	6.0	*	3.8	10.9	*	7.7	14.0	*
Prostatectomy	140	0.7	0.7	0.7	1.4	1.5	1.1	2.1	2.5	1.4
Cholecystectomy	62	0.0	3.3	3.9	1.6	5.8	4.8	3.2	7.5	4.9
Hysterectomy	30	0.0	0.4	*	0.0	0.8	*	0.0	1.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,690	8.7	9.2	0.9	13.6	13.8	0.9	16.9	17.3	0.8
CONDITIONS:										
Acute Myocardial Infarction	96	25.0	29.7	7.6	29.2	33.6	8.9	31.3	37.2	10.0
Congestive Heart Failure	131	26.7	17.9	6.1	35.1	27.0	6.3	40.5	34.2	5.5
Pneumonia/Influenza	92	17.4	19.0	4.7	26.1	25.5	4.8	31.5	30.7	6.6
Chronic Obstructive Pulmonary Disease	29	10.3	12.0	*	24.1	19.2	*	27.6	24.5	*
Transient Cerebral Ischemia	42	2.4	1.8	*	7.1	4.0	*	9.5	6.3	*
Stroke	95	22.1	24.9	5.2	31.6	32.6	5.2	35.8	37.4	5.2
Hip Fracture	42	7.1	7.4	*	9.5	12.4	*	14.3	15.5	*
Sepsis	13	23.1	26.9	*	30.8	35.4	*	38.5	40.9	*
PROCEDURES:										
Angioplasty	19	5.3	2.4	*	5.3	3.3	*	5.3	4.4	*
Coronary Artery Bypass Graft	84	8.3	5.8	3.4	10.7	7.7	4.3	11.9	8.9	5.1
Initial Pacemaker Insertion	10	10.0	8.9	*	30.0	14.6	*	40.0	18.7	*
Carotid Endarterectomy	46	0.0	1.6	*	0.0	2.9	*	2.2	4.1	*
Hip Replacement/Reconstruction	55	1.8	1.8	2.4	1.8	3.1	2.6	3.6	4.1	2.8
Open Reduction of Hip Fracture	31	6.5	6.9	*	9.7	12.5	*	12.9	15.8	*
Prostatectomy	88	1.1	1.3	1.4	4.5	3.0	2.3	4.5	4.8	2.3
Cholecystectomy	45	0.0	3.5	*	0.0	5.9	*	0.0	7.6	*
Hysterectomy	21	0.0	1.1	*	4.8	2.6	*	4.8	4.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MCPHERSON HOSPITAL

620 Byron Rd
Howell, MI 48843

Medicare Provider Number: 230069

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	769	11.7	10.5	1.5	15.7	15.4	1.5	19.1	19.3	1.6
CONDITIONS:										
Acute Myocardial Infarction	26	19.2	29.5	*	19.2	32.6	*	23.1	36.2	*
Congestive Heart Failure	34	17.6	16.4	*	23.5	25.3	*	29.4	32.4	*
Pneumonia/Influenza	42	23.8	19.6	*	26.2	26.1	*	28.6	31.3	*
Chronic Obstructive Pulmonary Disease	16	12.5	11.8	*	18.8	18.9	*	18.8	24.6	*
Transient Cerebral Ischemia	6	0.0	2.2	*	0.0	5.1	*	16.7	8.1	*
Stroke	36	27.8	20.6	*	30.6	27.9	*	33.3	32.4	*
Hip Fracture	25	8.0	6.6	*	16.0	11.8	*	28.0	15.2	*
Sepsis	10	20.0	37.0	*	40.0	43.5	*	40.0	49.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	10	0.0	1.3	*	0.0	3.0	*	0.0	4.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	14	7.1	4.7	*	14.3	9.0	*	28.6	11.9	*
Open Reduction of Hip Fracture	14	0.0	5.8	*	7.1	10.3	*	14.3	13.4	*
Prostatectomy	14	0.0	0.8	*	7.1	2.1	*	7.1	3.6	*
Cholecystectomy	24	4.2	2.7	*	8.3	4.8	*	8.3	6.2	*
Hysterectomy	12	0.0	0.5	*	0.0	1.2	*	0.0	2.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	93
Occupancy Rate	52
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	45
Percent of Physicians Board Certified Specialists	71
Medical Residents/Interns	0
Registered Nurses	129
Licensed Practical Nurses	33

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MCPHERSON HOSPITAL

Medicare Provider Number: 230069

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	763	12.5	10.8	1.5	17.4	15.5	1.8	21.2	19.3	1.9
CONDITIONS:										
Acute Myocardial Infarction	27	29.6	36.5	*	37.0	39.7	*	37.0	43.5	*
Congestive Heart Failure	45	24.4	18.6	*	35.6	28.1	*	42.2	35.3	*
Pneumonia/Influenza	39	25.6	16.4	*	28.2	21.8	*	33.3	26.4	*
Chronic Obstructive Pulmonary Disease	23	13.0	7.8	*	21.7	12.9	*	39.1	17.4	*
Transient Cerebral Ischemia	14	0.0	2.1	*	0.0	4.7	*	14.3	7.4	*
Stroke	34	20.6	19.2	*	26.5	25.7	*	26.5	30.0	*
Hip Fracture	28	10.7	6.5	*	14.3	11.8	*	17.9	15.2	*
Sepsis	9	33.3	36.7	*	44.4	45.8	*	44.4	52.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	2.0	*	0.0	3.5	*	0.0	5.3	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	14	7.1	3.5	*	7.1	6.9	*	7.1	9.2	*
Open Reduction of Hip Fracture	16	6.3	6.7	*	12.5	12.5	*	12.5	16.2	*
Prostatectomy	19	0.0	0.6	*	0.0	1.4	*	0.0	2.2	*
Cholecystectomy	12	0.0	2.8	*	0.0	5.5	*	0.0	7.5	*
Hysterectomy	6	0.0	0.1	*	0.0	0.3	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	782	11.1	9.4	1.6	17.3	14.2	1.9	20.8	18.1	2.1
CONDITIONS:										
Acute Myocardial Infarction	25	28.0	30.1	*	36.0	34.1	*	36.0	37.9	*
Congestive Heart Failure	48	25.0	16.7	*	35.4	24.9	*	41.7	31.8	*
Pneumonia/Influenza	34	14.7	19.3	*	17.6	26.0	*	17.6	31.2	*
Chronic Obstructive Pulmonary Disease	26	3.8	7.7	*	11.5	13.2	*	19.2	17.8	*
Transient Cerebral Ischemia	12	0.0	2.6	*	0.0	6.0	*	8.3	9.6	*
Stroke	28	25.0	22.2	*	39.3	29.7	*	39.3	34.3	*
Hip Fracture	22	13.6	6.5	*	13.6	12.0	*	18.2	15.7	*
Sepsis	7	28.6	30.0	*	42.9	39.8	*	57.1	46.9	*
PROCEDURES:										
Angioplasty	1	0.0	1.4	*	0.0	2.3	*	0.0	3.6	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	33.3	11.4	*	33.3	14.3	*	33.3	16.9	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	15	6.7	4.1	*	13.3	8.1	*	13.3	10.8	*
Open Reduction of Hip Fracture	9	11.1	6.9	*	11.1	13.3	*	22.2	17.6	*
Prostatectomy	17	0.0	0.4	*	0.0	0.8	*	0.0	1.4	*
Cholecystectomy	17	0.0	1.6	*	5.9	2.7	*	5.9	3.4	*
Hysterectomy	5	0.0	0.1	*	0.0	0.3	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MECOSTA COUNTY GENERAL HOSPITAL

405 Winter
Big Rapids, MI 49307

Medicare Provider Number: 230093

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	602	7.8	9.4	1.5	12.1	14.1	1.8	15.4	17.9	2.4
CONDITIONS:										
Acute Myocardial Infarction	25	24.0	26.3	*	28.0	29.6	*	32.0	32.9	*
Congestive Heart Failure	44	6.8	14.7	*	15.9	22.8	*	18.2	29.7	*
Pneumonia/Influenza	57	15.8	17.6	6.2	17.5	24.0	9.7	22.8	29.1	11.2
Chronic Obstructive Pulmonary Disease	10	10.0	14.7	*	30.0	22.2	*	30.0	28.4	*
Transient Cerebral Ischemia	6	0.0	3.1	*	16.7	7.8	*	16.7	13.1	*
Stroke	27	14.8	17.4	*	18.5	24.8	*	22.2	29.3	*
Hip Fracture	16	18.8	7.3	*	18.8	12.7	*	25.0	16.0	*
Sepsis	7	28.6	42.2	*	42.9	48.4	*	42.9	54.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	20	5.0	3.2	*	5.0	5.7	*	10.0	7.2	*
Open Reduction of Hip Fracture	7	28.6	6.9	*	28.6	12.6	*	28.6	16.2	*
Prostatectomy	0									
Cholecystectomy	13	0.0	0.9	*	0.0	1.4	*	0.0	1.9	*
Hysterectomy	4	0.0	0.2	*	0.0	0.3	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	74
Occupancy Rate	35
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	27
Percent of Physicians Board Certified Specialists	63
Medical Residents/Interns	0
Registered Nurses	70
Licensed Practical Nurses	14

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MECOSTA COUNTY GENERAL HOSPITAL

Medicare Provider Number: 230093

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	592	10.5	10.4	1.5	16.0	15.4	1.6	18.4	19.4	2.0
CONDITIONS:										
Acute Myocardial Infarction	31	35.5	24.7	*	38.7	29.1	*	38.7	33.1	*
Congestive Heart Failure	42	7.1	15.9	*	14.3	23.9	*	21.4	30.6	*
Pneumonia/Influenza	57	21.1	16.4	6.0	31.6	22.3	10.3	36.8	27.0	10.5
Chronic Obstructive Pulmonary Disease	7	0.0	9.2	*	0.0	15.1	*	0.0	20.5	*
Transient Cerebral Ischemia	3	0.0	3.7	*	33.3	8.7	*	33.3	13.8	*
Stroke	34	17.6	17.8	*	20.6	25.1	*	23.5	29.8	*
Hip Fracture	26	11.5	6.8	*	15.4	12.3	*	19.2	15.6	*
Sepsis	3	33.3	28.4	*	33.3	33.2	*	33.3	37.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	17	5.9	3.1	*	5.9	6.0	*	5.9	7.8	*
Open Reduction of Hip Fracture	14	14.3	6.4	*	14.3	12.0	*	21.4	15.7	*
Prostatectomy	1	0.0	1.7	*	0.0	4.4	*	0.0	7.3	*
Cholecystectomy	15	0.0	1.7	*	0.0	3.1	*	6.7	4.3	*
Hysterectomy	4	0.0	0.3	*	0.0	0.5	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	561	10.2	10.1	1.3	14.3	14.7	1.9	16.4	18.4	2.4
CONDITIONS:										
Acute Myocardial Infarction	24	16.7	25.5	*	25.0	28.9	*	25.0	32.3	*
Congestive Heart Failure	42	11.9	15.2	*	21.4	22.7	*	28.6	29.1	*
Pneumonia/Influenza	25	28.0	23.0	*	36.0	30.5	*	40.0	36.2	*
Chronic Obstructive Pulmonary Disease	9	11.1	10.9	*	11.1	18.4	*	11.1	24.4	*
Transient Cerebral Ischemia	10	0.0	2.7	*	10.0	5.9	*	10.0	9.5	*
Stroke	16	6.3	17.6	*	18.8	24.8	*	18.8	29.4	*
Hip Fracture	19	5.3	5.5	*	5.3	9.7	*	15.8	12.5	*
Sepsis	5	20.0	17.7	*	20.0	22.9	*	20.0	27.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	15	0.0	2.6	*	0.0	4.8	*	13.3	6.4	*
Open Reduction of Hip Fracture	9	11.1	5.7	*	11.1	10.5	*	11.1	13.6	*
Prostatectomy	16	0.0	0.6	*	0.0	1.4	*	0.0	2.4	*
Cholecystectomy	12	8.3	2.4	*	8.3	4.0	*	8.3	5.2	*
Hysterectomy	2	0.0	0.1	*	0.0	0.3	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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M/C MECOSTA COUNTY
G/H GENERAL HOSPITAL

405 Winter Avenue
Big Rapids, Michigan 49307-2099
Telephone (616) 796-8691

December 21, 1990

Department of Health and Human Services
Health Care Finance Administration
Attn: Gail R. Wilensky, Ph.D., Administrator
6325 Security Boulevard
Baltimore, MD 21207

Dear Doctor Wilensky:

Please include this statement along with the listing for Mecosta County General Hospital (Provider number 230093) in the upcoming publication of the Medicare hospital mortality statistics:

Mecosta County General Hospital supports the effort to establish an accurate data base for professional use in evaluating the effectiveness of medical practice and quality of care. Having stated this, we must also point out that the utility of the mortality statistics when applied to the scale of a small community hospital requires access to additional concepts, data and technical sophistication to be complete. While this data provides insights which may be helpful for self-evaluation by the medical community, the implications of some of the data could be very misleading if viewed simplistically.

For the above reasons, we would advise extreme caution where consumers might seek to use this data as the sole basis for choosing health care--for small facilities like ours, the statistics may be distorted beyond real usefulness and are inaccurate measures of quality. For large facilities, where patient volume may give the method more statistical validity, much more detail is needed than is made available, particularly if no explanation other than the data and mortality percentages are offered to consumers.

Because of these concerns, we advise our patients to contact their hospital, physician, state hospital association or the American Hospital Association for more precise information regarding the mortality data base and its implications for them as individuals.

My compliments on a formidable and helpful effort on behalf of the nation's Medicare beneficiaries. There can be no more worthwhile objective than the improvement of the quality of the nation's health services.

Respectfully,

Max K. Harder

Max K. Harder

MEMORIAL HOSPITAL

826 West King Street
Owosso, MI 48867

Medicare Provider Number: 230121

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,141	11.1	9.3	1.2	15.6	13.8	1.2	20.1	17.4	1.6
CONDITIONS:										
Acute Myocardial Infarction	40	22.5	33.7	*	25.0	36.8	*	27.5	40.1	*
Congestive Heart Failure	58	29.3	15.9	6.6	37.9	24.4	7.0	48.3	31.4	8.0
Pneumonia/Influenza	55	23.6	16.6	8.0	32.7	22.4	7.6	32.7	27.1	6.6
Chronic Obstructive Pulmonary Disease	13	23.1	6.0	*	23.1	12.3	*	38.5	18.2	*
Transient Cerebral Ischemia	26	0.0	1.9	*	0.0	4.2	*	0.0	6.8	*
Stroke	53	26.4	17.8	6.8	37.7	25.3	9.0	47.2	29.7	10.7
Hip Fracture	36	8.3	6.2	*	11.1	11.1	*	13.9	14.3	*
Sepsis	13	23.1	23.6	*	23.1	30.7	*	53.8	35.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	15	0.0	2.8	*	0.0	5.5	*	6.7	8.2	*
Carotid Endarterectomy	10	0.0	1.2	*	0.0	2.3	*	0.0	3.4	*
Hip Replacement/Reconstruction	18	0.0	2.2	*	0.0	4.4	*	0.0	6.2	*
Open Reduction of Hip Fracture	21	9.5	6.2	*	14.3	11.3	*	19.0	14.6	*
Prostatectomy	49	0.0	0.7	*	0.0	1.6	*	4.1	2.7	*
Cholecystectomy	34	8.8	2.0	*	11.8	3.6	*	11.8	4.8	*
Hysterectomy	7	0.0	0.4	*	0.0	0.8	*	0.0	1.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	166
Occupancy Rate	52
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	64
Percent of Physicians Board Certified Specialists	58
Medical Residents/Interns	0
Registered Nurses	120
Licensed Practical Nurses	26

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MEMORIAL HOSPITAL

Medicare Provider Number: 230121

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,175	9.8	8.6	1.3	15.2	13.0	1.8	18.0	16.5	1.7
CONDITIONS:										
Acute Myocardial Infarction	41	29.3	28.1	*	34.1	31.9	*	43.9	35.7	*
Congestive Heart Failure	67	20.9	16.2	5.7	31.3	24.5	7.7	32.8	31.3	5.8
Pneumonia/Influenza	58	15.5	16.6	5.0	22.4	22.6	5.7	29.3	27.4	6.4
Chronic Obstructive Pulmonary Disease	15	13.3	5.8	*	26.7	10.1	*	26.7	14.1	*
Transient Cerebral Ischemia	21	0.0	2.3	*	4.8	5.2	*	9.5	8.2	*
Stroke	44	22.7	19.0	*	22.7	26.6	*	27.3	31.3	*
Hip Fracture	46	2.2	7.3	*	2.2	13.1	*	6.5	16.7	*
Sepsis	12	16.7	30.0	*	25.0	37.7	*	25.0	43.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	5	40.0	11.0	*	40.0	14.6	*	40.0	18.2	*
Carotid Endarterectomy	11	0.0	0.9	*	0.0	1.7	*	9.1	2.4	*
Hip Replacement/Reconstruction	11	0.0	3.2	*	0.0	6.2	*	0.0	8.2	*
Open Reduction of Hip Fracture	31	3.2	7.0	*	3.2	13.1	*	9.7	17.0	*
Prostatectomy	53	1.9	0.9	1.6	1.9	2.1	2.3	1.9	3.5	3.2
Cholecystectomy	30	3.3	2.5	*	3.3	4.9	*	3.3	6.8	*
Hysterectomy	13	0.0	0.3	*	0.0	0.6	*	0.0	0.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,062	10.9	9.4	1.3	15.3	14.0	1.3	18.5	17.7	1.3
CONDITIONS:										
Acute Myocardial Infarction	56	30.4	27.9	8.3	32.1	31.2	8.7	37.5	34.6	9.0
Congestive Heart Failure	61	23.0	17.6	8.1	31.1	26.5	6.8	36.1	33.7	6.4
Pneumonia/Influenza	49	10.2	15.3	*	14.3	20.7	*	20.4	25.0	*
Chronic Obstructive Pulmonary Disease	17	17.6	7.7	*	23.5	13.3	*	29.4	18.3	*
Transient Cerebral Ischemia	21	0.0	2.4	*	4.8	5.2	*	4.8	8.1	*
Stroke	50	28.0	18.4	*	36.0	25.9	*	36.0	30.3	*
Hip Fracture	34	2.9	7.9	*	2.9	13.3	*	2.9	16.7	*
Sepsis	12	16.7	25.9	*	16.7	33.6	*	25.0	39.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	13	0.0	4.3	*	7.7	7.8	*	7.7	11.0	*
Carotid Endarterectomy	12	0.0	1.4	*	8.3	2.5	*	8.3	3.7	*
Hip Replacement/Reconstruction	7	0.0	1.8	*	0.0	3.6	*	0.0	4.8	*
Open Reduction of Hip Fracture	28	3.6	7.5	*	3.6	13.4	*	3.6	17.0	*
Prostatectomy	31	0.0	0.6	*	0.0	1.4	*	0.0	2.4	*
Cholecystectomy	22	9.1	4.1	*	13.6	7.4	*	13.6	9.7	*
Hysterectomy	7	0.0	3.9	*	14.3	7.7	*	14.3	10.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MEMORIAL MEDICAL CENTER OF WEST MICHIGAN

1 Atkinson Dr
Ludington, MI 49431

Medicare Provider Number: 230110

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	786	11.2	9.9	1.4	15.5	14.5	1.4	18.3	18.1	1.4
CONDITIONS:										
Acute Myocardial Infarction	24	41.7	33.9	*	45.8	37.0	*	45.8	40.5	*
Congestive Heart Failure	41	26.8	18.2	*	29.3	26.3	*	34.1	33.1	*
Pneumonia/Influenza	38	10.5	13.7	*	10.5	18.8	*	13.2	22.8	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	10	0.0	1.9	*	0.0	4.4	*	0.0	7.1	*
Stroke	38	23.7	20.8	*	28.9	26.9	*	31.6	31.2	*
Hip Fracture	34	11.8	5.6	*	17.6	10.5	*	20.6	14.1	*
Sepsis	4	50.0	25.8	*	50.0	33.2	*	50.0	39.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	15	0.0	0.6	*	0.0	1.0	*	0.0	1.4	*
Open Reduction of Hip Fracture	30	6.7	4.8	*	13.3	9.5	*	16.7	13.1	*
Prostatectomy	0									
Cholecystectomy	28	3.6	2.7	*	3.6	4.5	*	7.1	5.7	*
Hysterectomy	9	0.0	2.5	*	0.0	4.8	*	0.0	6.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	85
Occupancy Rate	44
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	31
Percent of Physicians Board Certified Specialists	87
Medical Residents/Interns	0
Registered Nurses	76
Licensed Practical Nurses	37

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MEMORIAL MEDICAL CENTER OF WEST MICHIGAN

Medicare Provider Number: 230110

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	779	10.4	10.7	1.1	14.6	15.4	1.6	17.8	19.1	2.1
CONDITIONS:										
Acute Myocardial Infarction	26	19.2	32.7	*	23.1	36.1	*	26.9	39.6	*
Congestive Heart Failure	48	10.4	18.1	*	16.7	26.6	*	27.1	33.5	*
Pneumonia/Influenza	45	13.3	17.7	*	15.6	23.7	*	17.8	28.6	*
Chronic Obstructive Pulmonary Disease	3	0.0	8.0	*	0.0	13.1	*	0.0	17.4	*
Transient Cerebral Ischemia	3	0.0	2.7	*	0.0	6.1	*	0.0	9.9	*
Stroke	36	27.8	24.1	*	30.6	30.5	*	33.3	35.3	*
Hip Fracture	23	13.0	6.1	*	13.0	11.2	*	17.4	14.6	*
Sepsis	10	10.0	30.2	*	30.0	38.7	*	30.0	45.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	16	0.0	0.8	*	0.0	1.3	*	0.0	1.8	*
Open Reduction of Hip Fracture	12	16.7	5.3	*	16.7	10.3	*	25.0	13.7	*
Prostatectomy	0									
Cholecystectomy	26	0.0	1.3	*	0.0	2.1	*	0.0	2.8	*
Hysterectomy	7	0.0	0.7	*	0.0	1.5	*	0.0	2.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	909	10.2	10.4	1.1	14.2	15.1	1.3	17.2	18.8	1.6
CONDITIONS:										
Acute Myocardial Infarction	33	36.4	36.1	*	42.4	39.2	*	42.4	42.9	*
Congestive Heart Failure	65	18.5	19.6	6.4	24.6	28.1	8.5	30.8	34.9	9.0
Pneumonia/Influenza	42	7.1	16.6	*	16.7	22.4	*	19.0	26.7	*
Chronic Obstructive Pulmonary Disease	2	0.0	6.4	*	0.0	11.5	*	0.0	15.8	*
Transient Cerebral Ischemia	11	0.0	1.7	*	0.0	3.7	*	0.0	5.8	*
Stroke	27	33.3	21.8	*	37.0	28.6	*	44.4	33.6	*
Hip Fracture	22	4.5	6.5	*	4.5	12.5	*	13.6	16.9	*
Sepsis	5	20.0	29.3	*	40.0	37.3	*	40.0	43.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	3.9	*	0.0	8.4	*	0.0	13.9	*
Carotid Endarterectomy	1	0.0	1.5	*	0.0	2.4	*	0.0	3.3	*
Hip Replacement/Reconstruction	19	0.0	2.4	*	0.0	4.6	*	5.3	6.1	*
Open Reduction of Hip Fracture	5	0.0	6.3	*	0.0	13.1	*	0.0	18.2	*
Prostatectomy	48	2.1	1.5	*	2.1	3.7	*	2.1	6.2	*
Cholecystectomy	28	3.6	2.1	*	10.7	3.8	*	10.7	4.9	*
Hysterectomy	9	0.0	0.7	*	0.0	1.6	*	0.0	2.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MERCY HOSPITAL

1500 E Sherman Boulevard
Muskegon, MI 49443

Medicare Provider Number: 230004

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,780	8.8	8.1	0.9	12.4	11.9	0.8	15.3	15.1	1.0
CONDITIONS:										
Acute Myocardial Infarction	81	22.2	25.1	6.7	23.5	28.0	6.8	27.2	31.1	6.7
Congestive Heart Failure	92	12.0	14.1	4.7	20.7	21.4	4.3	30.4	27.9	5.3
Pneumonia/Influenza	45	20.0	14.6	*	26.7	19.7	*	31.1	23.9	*
Chronic Obstructive Pulmonary Disease	9	11.1	8.7	*	22.2	13.2	*	22.2	17.2	*
Transient Cerebral Ischemia	22	4.5	1.7	*	4.5	3.5	*	4.5	5.4	*
Stroke	60	20.0	19.4	6.7	26.7	26.3	7.2	33.3	30.8	8.4
Hip Fracture	43	2.3	6.0	*	14.0	10.7	*	14.0	13.8	*
Sepsis	21	33.3	27.3	*	42.9	35.3	*	47.6	42.0	*
PROCEDURES:										
Angioplasty	35	0.0	2.5	*	0.0	3.3	*	0.0	4.3	*
Coronary Artery Bypass Graft	64	6.3	5.5	3.6	7.8	7.9	4.0	9.4	9.3	4.0
Initial Pacemaker Insertion	22	4.5	4.0	*	4.5	7.3	*	4.5	10.2	*
Carotid Endarterectomy	9	0.0	1.3	*	0.0	2.3	*	0.0	3.4	*
Hip Replacement/Reconstruction	65	1.5	1.7	1.7	3.1	3.0	2.1	4.6	4.0	2.5
Open Reduction of Hip Fracture	24	4.2	5.0	*	16.7	9.2	*	16.7	12.0	*
Prostatectomy	97	0.0	0.6	1.3	1.0	1.4	1.4	1.0	2.4	2.2
Cholecystectomy	39	7.7	2.4	*	7.7	4.1	*	7.7	5.3	*
Hysterectomy	4	25.0	1.0	*	25.0	2.0	*	25.0	2.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	239
Occupancy Rate	53
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	147
Percent of Physicians Board Certified Specialists	70
Medical Residents/Interns	0
Registered Nurses	143
Licensed Practical Nurses	49

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MERCY HOSPITAL

Medicare Provider Number: 230004

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,906	9.1	8.5	0.8	13.6	12.8	1.0	17.1	16.3	0.9
CONDITIONS:										
Acute Myocardial Infarction	71	15.5	25.9	9.3	21.1	28.6	9.5	22.5	31.7	8.6
Congestive Heart Failure	93	15.1	16.3	3.9	20.4	24.9	6.8	38.7	32.0	6.3
Pneumonia/Influenza	72	18.1	15.7	4.7	20.8	21.4	4.9	23.6	26.0	5.5
Chronic Obstructive Pulmonary Disease	22	9.1	6.7	*	13.6	11.8	*	18.2	16.3	*
Transient Cerebral Ischemia	26	0.0	1.8	*	3.8	3.8	*	3.8	5.9	*
Stroke	55	27.3	21.7	7.9	32.7	28.2	8.1	40.0	32.7	9.5
Hip Fracture	35	14.3	8.4	*	17.1	15.0	*	20.0	19.0	*
Sepsis	18	22.2	27.3	*	27.8	37.7	*	27.8	44.6	*
PROCEDURES:										
Angioplasty	26	3.8	2.4	*	3.8	3.3	*	7.7	4.3	*
Coronary Artery Bypass Graft	75	12.0	5.8	5.1	14.7	8.1	4.8	18.7	9.5	5.8
Initial Pacemaker Insertion	23	0.0	4.6	*	13.0	7.3	*	17.4	9.8	*
Carotid Endarterectomy	14	0.0	1.3	*	0.0	2.5	*	7.1	3.8	*
Hip Replacement/Reconstruction	58	5.2	2.1	3.5	6.9	4.0	3.8	8.6	5.4	4.6
Open Reduction of Hip Fracture	19	5.3	7.1	*	10.5	12.8	*	10.5	16.2	*
Prostatectomy	88	0.0	0.6	0.9	0.0	1.4	1.7	1.1	2.4	1.9
Cholecystectomy	50	4.0	1.9	*	4.0	3.4	*	4.0	4.4	*
Hysterectomy	11	9.1	0.7	*	9.1	1.5	*	9.1	2.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,837	7.8	7.7	0.7	11.9	11.7	0.8	15.4	14.9	1.2
CONDITIONS:										
Acute Myocardial Infarction	74	25.7	27.3	5.8	27.0	30.4	5.8	35.1	33.6	5.7
Congestive Heart Failure	84	19.0	15.0	7.2	32.1	23.3	8.4	35.7	30.1	7.2
Pneumonia/Influenza	42	21.4	16.1	*	28.6	21.8	*	33.3	26.2	*
Chronic Obstructive Pulmonary Disease	25	8.0	7.4	*	16.0	12.4	*	16.0	16.6	*
Transient Cerebral Ischemia	20	0.0	2.2	*	0.0	4.8	*	5.0	7.6	*
Stroke	60	20.0	21.4	7.7	30.0	28.1	8.7	33.3	32.5	7.5
Hip Fracture	33	3.0	6.8	*	6.1	12.1	*	9.1	15.6	*
Sepsis	22	22.7	26.1	*	31.8	34.0	*	36.4	39.8	*
PROCEDURES:										
Angioplasty	32	0.0	5.6	*	3.1	6.5	*	6.3	7.5	*
Coronary Artery Bypass Graft	57	10.5	4.8	4.7	14.0	6.4	5.9	14.0	7.4	5.9
Initial Pacemaker Insertion	25	0.0	2.7	*	0.0	5.8	*	4.0	8.9	*
Carotid Endarterectomy	14	0.0	1.4	*	0.0	2.4	*	0.0	3.4	*
Hip Replacement/Reconstruction	61	0.0	2.0	2.7	1.6	3.5	3.4	3.3	4.5	3.4
Open Reduction of Hip Fracture	16	6.3	6.8	*	6.3	12.9	*	6.3	17.0	*
Prostatectomy	79	0.0	0.8	1.2	0.0	1.9	2.3	1.3	3.3	2.6
Cholecystectomy	49	4.1	1.7	*	6.1	2.9	*	6.1	3.8	*
Hysterectomy	7	0.0	1.0	*	0.0	2.6	*	0.0	4.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MERCY HOSPITAL

2601 Electric Avenue
Port Huron, MI 48060

Medicare Provider Number: 230031

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,288	10.0	9.8	0.9	15.8	15.5	1.1	19.6	19.8	1.4
CONDITIONS:										
Acute Myocardial Infarction	32	21.9	22.5	*	28.1	25.9	*	28.1	29.2	*
Congestive Heart Failure	41	36.6	13.6	*	46.3	21.2	*	46.3	27.9	*
Pneumonia/Influenza	49	16.3	20.4	*	26.5	28.2	*	32.7	34.1	*
Chronic Obstructive Pulmonary Disease	12	8.3	8.7	*	16.7	15.7	*	33.3	22.1	*
Transient Cerebral Ischemia	39	0.0	1.9	*	5.1	4.2	*	5.1	6.7	*
Stroke	47	17.0	16.1	*	25.5	22.5	*	29.8	26.5	*
Hip Fracture	29	3.4	7.0	*	3.4	12.4	*	6.9	16.0	*
Sepsis	18	50.0	27.8	*	66.7	38.9	*	66.7	47.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	12	8.3	4.5	*	16.7	7.5	*	16.7	10.5	*
Carotid Endarterectomy	83	2.4	2.1	1.9	3.6	4.0	2.2	4.8	5.9	3.1
Hip Replacement/Reconstruction	16	0.0	4.0	*	0.0	7.6	*	0.0	10.1	*
Open Reduction of Hip Fracture	14	7.1	7.5	*	7.1	14.0	*	14.3	18.4	*
Prostatectomy	33	3.0	0.8	*	6.1	1.8	*	9.1	3.1	*
Cholecystectomy	20	0.0	3.9	*	5.0	7.6	*	10.0	10.3	*
Hysterectomy	9	0.0	0.6	*	0.0	1.3	*	0.0	2.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	119
Occupancy Rate	72
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	93
Percent of Physicians Board Certified Specialists	70
Medical Residents/Interns	0
Registered Nurses	123
Licensed Practical Nurses	15

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MERCY HOSPITAL

Medicare Provider Number: 230031

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,334	10.9	9.5	1.5	15.6	14.8	1.4	19.0	19.0	1.6
CONDITIONS:										
Acute Myocardial Infarction	38	31.6	27.0	*	31.6	30.5	*	31.6	33.9	*
Congestive Heart Failure	56	14.3	15.7	5.1	23.2	23.5	5.7	30.4	30.0	6.5
Pneumonia/Influenza	51	15.7	17.9	5.7	23.5	24.3	6.7	23.5	29.3	8.0
Chronic Obstructive Pulmonary Disease	22	13.6	10.4	*	13.6	16.8	*	27.3	22.2	*
Transient Cerebral Ischemia	53	1.9	1.6	*	3.8	3.3	*	3.8	5.1	*
Stroke	42	23.8	18.6	*	35.7	26.1	*	38.1	30.7	*
Hip Fracture	25	8.0	7.2	*	16.0	13.0	*	40.0	16.7	*
Sepsis	18	27.8	27.1	*	44.4	36.1	*	50.0	42.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	8	0.0	3.7	*	0.0	6.7	*	0.0	9.5	*
Carotid Endarterectomy	92	2.2	1.8	1.7	3.3	3.4	2.5	3.3	5.0	3.2
Hip Replacement/Reconstruction	16	6.3	4.5	*	18.8	8.9	*	37.5	11.7	*
Open Reduction of Hip Fracture	11	0.0	6.1	*	0.0	11.7	*	27.3	15.6	*
Prostatectomy	46	0.0	0.8	*	0.0	2.1	*	0.0	3.5	*
Cholecystectomy	16	0.0	1.2	*	0.0	2.2	*	0.0	3.0	*
Hysterectomy	5	20.0	0.5	*	20.0	1.1	*	20.0	1.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,200	8.8	9.0	0.9	13.5	14.0	1.0	17.1	17.9	1.7
CONDITIONS:										
Acute Myocardial Infarction	28	17.9	26.7	*	25.0	30.9	*	25.0	34.2	*
Congestive Heart Failure	46	26.1	16.3	*	34.8	24.5	*	39.1	31.5	*
Pneumonia/Influenza	44	15.9	16.2	*	18.2	21.9	*	20.5	26.5	*
Chronic Obstructive Pulmonary Disease	15	20.0	14.3	*	26.7	22.3	*	26.7	28.4	*
Transient Cerebral Ischemia	69	0.0	1.7	2.1	0.0	3.3	3.4	1.4	5.0	3.7
Stroke	36	25.0	24.8	*	30.6	33.3	*	33.3	38.4	*
Hip Fracture	30	6.7	7.2	*	16.7	13.0	*	16.7	16.7	*
Sepsis	10	30.0	30.4	*	30.0	39.5	*	40.0	46.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	0.0	2.9	*	0.0	5.8	*	14.3	8.4	*
Carotid Endarterectomy	57	1.8	2.2	2.3	3.5	4.2	2.7	5.3	6.0	3.3
Hip Replacement/Reconstruction	20	0.0	4.5	*	0.0	8.2	*	0.0	10.6	*
Open Reduction of Hip Fracture	19	10.5	6.9	*	26.3	13.1	*	26.3	17.1	*
Prostatectomy	46	0.0	1.0	*	0.0	2.6	*	4.3	4.4	*
Cholecystectomy	20	0.0	2.0	*	0.0	3.2	*	0.0	4.1	*
Hysterectomy	4	0.0	0.3	*	0.0	0.5	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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Mercy Hospital
2601 Electric Avenue·Port Huron, Michigan 48061-1348 (313)985-1500

Medicare Provider #230031

January 8, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
Att: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Mrs. Kappert:

It is difficult to draw conclusions because the precision and interpretability of the estimates are questionable with fewer than 50 cases in a particular category.

These mortality data will be further reviewed by our QA Committees in each Medical Staff Department. We know from past analyses that our specialty focus on Oncology, Cardiology and Vascular Services tends to attract patients who are more severely ill. Past mortality reviews have shown that many congestive heart failure patients have been of advanced age and many sepsis patients have also had terminal cancer diagnoses.

We do find the data useful for directing further review in our Quality Assurance Program.

Sincerely,

Sister Catherine McGroarty, RSM
Sister Catherine McGroarty, R.S.M.
President and Chief Executive Officer

Rene Smit, M.D.
Chief of Staff

SCM/RS/cms

MERCY HOSPITAL

1100 Michigan Ave
Grayling, MI 49738

Medicare Provider Number: 230058

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	910	7.3	9.7	1.4	11.5	14.2	1.6	15.1	17.7	1.7
CONDITIONS:										
Acute Myocardial Infarction	51	25.5	29.3	7.1	31.4	32.7	7.2	35.3	36.0	7.3
Congestive Heart Failure	64	7.8	14.9	7.0	14.1	22.8	9.3	20.3	29.4	10.3
Pneumonia/Influenza	69	13.0	12.6	4.2	14.5	17.3	5.9	17.4	21.2	7.4
Chronic Obstructive Pulmonary Disease	24	0.0	5.0	*	4.2	9.6	*	8.3	13.9	*
Transient Cerebral Ischemia	13	0.0	2.1	*	0.0	4.8	*	0.0	7.7	*
Stroke	34	8.8	19.1	*	17.6	25.5	*	17.6	29.7	*
Hip Fracture	36	2.8	6.2	*	8.3	11.4	*	16.7	15.0	*
Sepsis	16	31.3	24.5	*	37.5	31.8	*	37.5	37.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	0.0	3.4	*	0.0	7.3	*	0.0	11.1	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	25	0.0	2.8	*	4.0	5.2	*	4.0	6.9	*
Open Reduction of Hip Fracture	23	4.3	5.6	*	8.7	10.7	*	17.4	14.3	*
Prostatectomy	0									
Cholecystectomy	24	0.0	2.7	*	4.2	4.6	*	4.2	5.8	*
Hysterectomy	3	0.0	0.3	*	0.0	0.5	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	98
Occupancy Rate	74
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	28
Percent of Physicians Board Certified Specialists	75
Medical Residents/Interns	0
Registered Nurses	58
Licensed Practical Nurses	27

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MERCY HOSPITAL

Medicare Provider Number: 230058

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	863	9.6	9.1	1.2	14.5	13.6	1.3	16.2	17.3	1.5
CONDITIONS:										
Acute Myocardial Infarction	30	23.3	27.7	*	30.0	31.4	*	30.0	35.0	*
Congestive Heart Failure	48	8.3	16.1	*	20.8	24.5	*	22.9	31.4	*
Pneumonia/Influenza	60	20.0	17.0	5.5	25.0	23.0	7.1	28.3	27.7	5.9
Chronic Obstructive Pulmonary Disease	16	12.5	8.6	*	18.8	14.1	*	18.8	18.6	*
Transient Cerebral Ischemia	22	0.0	2.2	*	4.5	5.0	*	13.6	8.0	*
Stroke	34	23.5	19.1	*	26.5	26.9	*	32.4	31.6	*
Hip Fracture	24	8.3	6.2	*	8.3	11.4	*	8.3	14.7	*
Sepsis	7	42.9	33.5	*	42.9	39.4	*	42.9	45.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	8.6	*	0.0	11.0	*	0.0	13.4	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	20	5.0	2.3	*	5.0	4.7	*	5.0	6.5	*
Open Reduction of Hip Fracture	14	7.1	6.0	*	7.1	11.4	*	7.1	15.0	*
Prostatectomy	0									
Cholecystectomy	23	0.0	1.7	*	0.0	2.9	*	0.0	3.7	*
Hysterectomy	6	0.0	0.5	*	0.0	0.9	*	0.0	1.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	861	9.5	9.1	1.0	14.1	14.0	1.2	16.7	18.0	1.6
CONDITIONS:										
Acute Myocardial Infarction	37	35.1	20.3	*	43.2	24.1	*	45.9	27.8	*
Congestive Heart Failure	66	13.6	16.9	6.9	19.7	25.3	9.9	24.2	32.3	12.9
Pneumonia/Influenza	44	11.4	14.5	*	18.2	19.6	*	20.5	23.9	*
Chronic Obstructive Pulmonary Disease	27	11.1	10.6	*	18.5	17.4	*	25.9	22.9	*
Transient Cerebral Ischemia	9	11.1	2.6	*	11.1	5.7	*	11.1	9.0	*
Stroke	23	8.7	21.0	*	21.7	28.8	*	21.7	33.6	*
Hip Fracture	21	19.0	7.5	*	28.6	13.3	*	33.3	17.1	*
Sepsis	10	30.0	22.8	*	40.0	31.1	*	40.0	36.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	14	0.0	3.9	*	7.1	7.6	*	14.3	10.1	*
Open Reduction of Hip Fracture	11	36.4	7.8	*	45.5	14.1	*	45.5	18.2	*
Prostatectomy	0									
Cholecystectomy	21	0.0	2.5	*	0.0	4.1	*	0.0	5.1	*
Hysterectomy	5	0.0	0.4	*	0.0	0.8	*	0.0	1.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MERCY HOSPITAL

400 Hobart
Cadillac, MI 49601

Medicare Provider Number: 230081

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,123	8.0	8.8	1.3	13.6	13.4	1.5	16.7	17.1	1.2
CONDITIONS:										
Acute Myocardial Infarction	43	30.2	27.6	*	39.5	30.7	*	41.9	34.0	*
Congestive Heart Failure	88	11.4	15.5	7.4	20.5	23.4	8.9	26.1	30.1	6.3
Pneumonia/Influenza	65	12.3	15.1	5.8	16.9	20.4	7.4	21.5	24.6	6.5
Chronic Obstructive Pulmonary Disease	5	0.0	5.8	*	20.0	10.0	*	20.0	13.8	*
Transient Cerebral Ischemia	11	0.0	2.4	*	0.0	5.4	*	9.1	8.6	*
Stroke	33	24.2	20.3	*	33.3	27.3	*	33.3	31.6	*
Hip Fracture	29	0.0	6.7	*	3.4	11.8	*	3.4	15.4	*
Sepsis	6	33.3	24.4	*	50.0	32.0	*	50.0	38.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	9	0.0	3.3	*	11.1	6.2	*	22.2	9.0	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	12	0.0	2.9	*	0.0	5.7	*	0.0	7.7	*
Open Reduction of Hip Fracture	24	0.0	5.9	*	4.2	10.9	*	4.2	14.3	*
Prostatectomy	53	1.9	0.9	1.9	1.9	2.2	2.4	1.9	3.8	3.5
Cholecystectomy	32	0.0	1.6	*	0.0	2.9	*	3.1	4.0	*
Hysterectomy	11	0.0	0.4	*	0.0	0.8	*	0.0	1.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	154
Occupancy Rate	48
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	41
Percent of Physicians Board Certified Specialists	73
Medical Residents/Interns	0
Registered Nurses	93
Licensed Practical Nurses	61

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MERCY HOSPITAL

Medicare Provider Number: 230081

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,125	7.9	9.0	1.3	11.5	13.7	1.8	15.6	17.3	1.8
CONDITIONS:										
Acute Myocardial Infarction	46	28.3	28.8	*	30.4	32.0	*	34.8	35.4	*
Congestive Heart Failure	58	13.8	15.2	5.0	25.9	23.1	6.2	32.8	29.9	7.5
Pneumonia/Influenza	65	10.8	17.1	6.8	12.3	22.7	8.7	20.0	26.9	8.6
Chronic Obstructive Pulmonary Disease	16	6.3	10.3	*	12.5	16.4	*	12.5	21.1	*
Transient Cerebral Ischemia	24	4.2	2.2	*	12.5	4.9	*	12.5	7.8	*
Stroke	46	19.6	19.0	*	23.9	25.5	*	28.3	29.8	*
Hip Fracture	36	11.1	6.8	*	16.7	12.4	*	22.2	15.8	*
Sepsis	3	33.3	33.8	*	66.7	43.3	*	66.7	51.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	25.0	3.6	*	25.0	7.4	*	25.0	10.1	*
Open Reduction of Hip Fracture	28	7.1	6.1	*	14.3	11.6	*	17.9	15.0	*
Prostatectomy	59	0.0	0.7	1.2	1.7	1.8	1.9	1.7	3.2	2.6
Cholecystectomy	23	8.7	5.0	*	8.7	8.8	*	8.7	11.0	*
Hysterectomy	8	0.0	0.4	*	0.0	0.6	*	0.0	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,314	7.8	8.0	0.8	12.4	12.3	0.9	15.4	15.7	1.1
CONDITIONS:										
Acute Myocardial Infarction	46	32.6	31.4	*	34.8	34.7	*	37.0	37.8	*
Congestive Heart Failure	71	15.5	16.6	5.7	25.4	24.6	6.5	31.0	31.3	5.6
Pneumonia/Influenza	74	8.1	18.2	7.6	18.9	24.5	6.6	23.0	29.4	6.9
Chronic Obstructive Pulmonary Disease	19	15.8	11.3	*	21.1	18.2	*	26.3	23.6	*
Transient Cerebral Ischemia	26	0.0	2.5	*	3.8	5.7	*	3.8	9.3	*
Stroke	26	42.3	25.0	*	53.8	32.3	*	57.7	37.1	*
Hip Fracture	29	10.3	6.9	*	20.7	12.7	*	31.0	16.6	*
Sepsis	5	40.0	36.7	*	60.0	43.8	*	60.0	50.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	1.9	*	0.0	4.3	*	0.0	6.6	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	12	8.3	1.5	*	8.3	2.6	*	8.3	3.4	*
Open Reduction of Hip Fracture	24	8.3	6.0	*	16.7	11.7	*	29.2	15.7	*
Prostatectomy	65	1.5	0.8	1.6	3.1	1.9	2.6	3.1	3.2	2.6
Cholecystectomy	22	4.5	3.7	*	4.5	6.9	*	4.5	9.4	*
Hysterectomy	15	0.0	0.1	*	0.0	0.2	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MERCY MEMORIAL MEDICAL CENTER INC

1234 Napier Avenue
St Joseph, MI 49085

Medicare Provider Number: 230021

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,220	9.8	9.1	0.9	15.1	13.9	1.2	18.8	17.7	1.4
CONDITIONS:										
Acute Myocardial Infarction	75	28.0	23.9	5.9	29.3	27.4	7.9	36.0	30.8	9.6
Congestive Heart Failure	158	12.0	14.4	3.9	18.4	22.1	4.8	27.2	28.6	3.9
Pneumonia/Influenza	98	14.3	15.9	3.8	26.5	21.8	5.6	31.6	26.5	5.6
Chronic Obstructive Pulmonary Disease	17	17.6	8.7	*	29.4	14.0	*	29.4	18.5	*
Transient Cerebral Ischemia	45	0.0	2.3	*	4.4	5.1	*	8.9	8.1	*
Stroke	84	23.8	20.6	5.5	32.1	27.1	8.1	34.5	31.4	8.5
Hip Fracture	46	10.9	5.9	*	15.2	10.5	*	15.2	13.7	*
Sepsis	23	17.4	28.9	*	21.7	37.1	*	21.7	43.9	*
PROCEDURES:										
Angioplasty	51	3.9	2.7	2.8	3.9	3.5	3.2	5.9	4.5	3.5
Coronary Artery Bypass Graft	37	8.1	4.2	*	13.5	6.0	*	16.2	7.1	*
Initial Pacemaker Insertion	10	0.0	2.8	*	10.0	5.6	*	10.0	8.2	*
Carotid Endarterectomy	5	0.0	2.0	*	0.0	4.0	*	0.0	6.2	*
Hip Replacement/Reconstruction	48	2.1	2.2	*	6.3	4.1	*	6.3	5.6	*
Open Reduction of Hip Fracture	19	15.8	5.5	*	15.8	10.6	*	15.8	14.1	*
Prostatectomy	74	0.0	0.6	*	0.0	1.5	*	0.0	2.5	*
Cholecystectomy	50	4.0	3.8	*	8.0	6.9	*	12.0	9.0	*
Hysterectomy	10	0.0	1.1	*	0.0	2.4	*	0.0	3.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	352
Occupancy Rate	51
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	163
Percent of Physicians Board Certified Specialists	73
Medical Residents/Interns	0
Registered Nurses	314
Licensed Practical Nurses	47

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MERCY MEMORIAL MEDICAL CENTER INC

Medicare Provider Number: 230021

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,406	9.4	8.8	1.0	13.8	13.5	1.0	17.3	17.3	0.8
CONDITIONS:										
Acute Myocardial Infarction	57	28.1	28.8	6.5	31.6	31.8	6.2	31.6	35.2	7.5
Congestive Heart Failure	151	13.9	15.0	3.3	22.5	22.6	4.7	28.5	29.1	3.8
Pneumonia/Influenza	115	17.4	17.0	3.8	23.5	22.8	4.1	27.8	27.3	4.5
Chronic Obstructive Pulmonary Disease	33	0.0	9.9	*	6.1	16.2	*	12.1	21.4	*
Transient Cerebral Ischemia	50	8.0	2.0	*	12.0	4.3	*	14.0	6.8	*
Stroke	105	33.3	21.6	6.2	40.0	29.2	6.1	43.8	34.0	5.9
Hip Fracture	52	5.8	6.6	5.3	17.3	12.0	7.7	21.2	15.4	10.2
Sepsis	15	53.3	34.1	*	66.7	44.2	*	66.7	52.0	*
PROCEDURES:										
Angioplasty	23	0.0	2.6	*	0.0	3.3	*	0.0	4.1	*
Coronary Artery Bypass Graft	31	6.5	5.2	*	16.1	7.1	*	19.4	8.4	*
Initial Pacemaker Insertion	10	0.0	2.9	*	0.0	5.0	*	0.0	7.2	*
Carotid Endarterectomy	14	0.0	1.8	*	7.1	3.5	*	7.1	5.3	*
Hip Replacement/Reconstruction	38	2.6	3.2	*	7.9	6.1	*	13.2	8.0	*
Open Reduction of Hip Fracture	21	9.5	6.7	*	23.8	12.7	*	28.6	16.8	*
Prostatectomy	72	0.0	0.8	1.4	0.0	1.9	2.9	2.8	3.1	2.7
Cholecystectomy	43	4.7	4.6	*	7.0	7.9	*	9.3	10.1	*
Hysterectomy	24	4.2	1.4	*	4.2	3.0	*	8.3	4.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,345	9.8	9.6	0.9	15.1	14.5	0.8	19.0	18.4	0.9
CONDITIONS:										
Acute Myocardial Infarction	73	32.9	28.2	6.7	39.7	31.4	8.8	41.1	34.6	9.2
Congestive Heart Failure	134	17.9	18.1	3.9	26.1	27.2	4.0	35.8	34.6	4.8
Pneumonia/Influenza	93	20.4	16.2	4.3	32.3	21.8	6.7	36.6	26.3	7.1
Chronic Obstructive Pulmonary Disease	27	11.1	11.4	*	25.9	17.9	*	29.6	23.0	*
Transient Cerebral Ischemia	34	0.0	1.8	*	2.9	3.8	*	2.9	6.1	*
Stroke	99	27.3	22.0	6.1	32.3	29.0	6.3	34.3	33.4	5.1
Hip Fracture	63	4.8	6.7	3.9	7.9	12.2	7.9	9.5	15.8	10.3
Sepsis	13	30.8	26.1	*	30.8	34.0	*	30.8	39.9	*
PROCEDURES:										
Angioplasty	20	0.0	2.3	*	0.0	2.9	*	0.0	3.8	*
Coronary Artery Bypass Graft	36	2.8	6.4	*	8.3	8.7	*	8.3	10.0	*
Initial Pacemaker Insertion	20	5.0	3.7	*	15.0	7.5	*	20.0	10.8	*
Carotid Endarterectomy	10	10.0	1.6	*	10.0	3.2	*	10.0	4.7	*
Hip Replacement/Reconstruction	38	2.6	3.2	*	2.6	6.2	*	5.3	8.2	*
Open Reduction of Hip Fracture	32	6.3	5.5	*	6.3	10.7	*	6.3	14.3	*
Prostatectomy	86	1.2	1.1	1.1	4.7	2.7	2.6	4.7	4.6	2.3
Cholecystectomy	43	2.3	2.5	*	2.3	4.6	*	7.0	6.1	*
Hysterectomy	16	6.3	4.7	*	12.5	8.6	*	12.5	11.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MERCY-MEMORIAL HOSPITAL

740 N Macomb Street, P O Box 67
Monroe, MI 48161

Medicare Provider Number: 230099

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,666	8.7	9.5	0.9	14.9	14.4	0.9	18.1	18.3	1.0
CONDITIONS:										
Acute Myocardial Infarction	53	17.0	22.8	9.4	17.0	25.9	8.6	20.8	29.2	8.1
Congestive Heart Failure	99	15.2	13.5	3.9	25.3	21.1	4.9	28.3	27.6	5.8
Pneumonia/Influenza	89	15.7	15.8	3.9	22.5	21.7	6.0	30.3	26.1	7.1
Chronic Obstructive Pulmonary Disease	18	0.0	6.1	*	16.7	11.3	*	16.7	16.2	*
Transient Cerebral Ischemia	42	2.4	1.8	*	2.4	4.1	*	2.4	6.5	*
Stroke	65	21.5	19.8	7.1	29.2	27.6	6.8	33.8	32.3	7.3
Hip Fracture	48	2.1	7.3	*	10.4	13.0	*	16.7	16.9	*
Sepsis	15	20.0	24.8	*	33.3	31.9	*	33.3	37.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	15	6.7	2.5	*	26.7	5.4	*	26.7	8.3	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	32	0.0	4.9	*	9.4	9.4	*	15.6	12.6	*
Open Reduction of Hip Fracture	25	0.0	6.1	*	8.0	11.3	*	12.0	14.7	*
Prostatectomy	52	1.9	1.2	3.4	5.8	2.7	4.8	7.7	4.3	5.7
Cholecystectomy	29	0.0	2.5	*	3.4	3.9	*	3.4	4.9	*
Hysterectomy	10	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	182
Occupancy Rate	75
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	68
Percent of Physicians Board Certified Specialists	62
Medical Residents/Interns	0
Registered Nurses	187
Licensed Practical Nurses	51

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MERCY-MEMORIAL HOSPITAL

Medicare Provider Number: 230099

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,605	10.7	10.6	0.8	16.2	16.1	0.9	20.1	20.4	1.1
CONDITIONS:										
Acute Myocardial Infarction	41	36.6	28.6	*	43.9	32.8	*	43.9	36.8	*
Congestive Heart Failure	107	21.5	18.2	5.2	29.9	27.4	4.9	34.6	34.7	5.3
Pneumonia/Influenza	83	9.6	16.3	5.3	22.9	22.3	4.7	27.7	26.7	4.9
Chronic Obstructive Pulmonary Disease	30	13.3	13.2	*	23.3	20.9	*	23.3	26.3	*
Transient Cerebral Ischemia	44	4.5	2.3	*	6.8	5.0	*	11.4	7.8	*
Stroke	66	16.7	20.5	6.6	24.2	28.3	6.5	31.8	33.2	6.0
Hip Fracture	44	2.3	6.8	*	6.8	12.4	*	13.6	16.1	*
Sepsis	11	27.3	33.1	*	36.4	42.7	*	45.5	49.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	2.8	*	0.0	6.2	*	0.0	9.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	16	0.0	5.8	*	6.3	12.0	*	6.3	16.6	*
Open Reduction of Hip Fracture	24	0.0	5.9	*	8.3	11.1	*	16.7	14.5	*
Prostatectomy	49	2.0	1.3	*	2.0	3.3	*	8.2	5.6	*
Cholecystectomy	39	0.0	3.2	*	2.6	5.3	*	2.6	6.5	*
Hysterectomy	16	0.0	0.9	*	0.0	1.9	*	0.0	2.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,434	10.2	10.3	0.8	14.5	15.6	1.2	18.8	19.7	1.3
CONDITIONS:										
Acute Myocardial Infarction	42	26.2	25.4	*	28.6	28.8	*	33.3	32.2	*
Congestive Heart Failure	104	14.4	17.8	5.2	23.1	26.9	7.1	28.8	34.2	9.1
Pneumonia/Influenza	58	20.7	17.7	6.2	24.1	24.0	5.7	25.9	28.7	6.5
Chronic Obstructive Pulmonary Disease	34	11.8	9.2	*	23.5	15.4	*	29.4	20.3	*
Transient Cerebral Ischemia	52	0.0	2.0	2.8	1.9	4.4	3.6	3.8	7.1	4.5
Stroke	61	27.9	24.9	7.0	37.7	32.4	10.5	47.5	37.2	10.9
Hip Fracture	39	0.0	8.1	*	2.6	14.5	*	12.8	18.8	*
Sepsis	14	14.3	22.1	*	21.4	30.0	*	21.4	35.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	5	0.0	2.9	*	0.0	6.2	*	0.0	9.6	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	17	0.0	3.5	*	0.0	6.7	*	11.8	9.0	*
Open Reduction of Hip Fracture	25	0.0	8.1	*	4.0	15.2	*	12.0	20.0	*
Prostatectomy	42	0.0	1.7	*	4.8	4.2	*	11.9	7.1	*
Cholecystectomy	43	7.0	4.2	*	9.3	7.1	*	11.6	9.0	*
Hysterectomy	8	0.0	0.6	*	0.0	1.1	*	0.0	1.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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437.2

Mercy Memorial Hospital
740 North Macomb Street
P.O. Box 67
Monroe, Michigan 48161
313-241-1700

Medicare Provider # 230099
January 15, 1990

Mrs. Sandra Kappert
Health Care Financing Administration
Health Standards and Quality Bureau
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Mrs. Kappert:

Quality patient care is important to Mercy Memorial Hospital. We have reviewed the Medicare Hospital Mortality Information as part of our quality improvement effort and offer the following comments.

During our review, we were surprised to note that there was a difference between the observed and predicted mortality rates for patients undergoing initial pacemaker insertion. Upon further investigation, it appears that each of these patients received appropriate care and that their deaths were due to causes unrelated to the pacemaker insertion procedure. This conclusion was drawn based on the fact that each patient met Medicare criteria for pacemaker insertion, each insertion was approved by Medicare, and all patients survived the procedure.

While the mortality data presented a difference between the observed and predicted mortality rates for these patients, our analysis does not show that this difference is meaningful. Instead, the difference appears to be related to the small number of cases within this category of deaths. A smaller number of cases in a category leads to uncertainty about the predicted mortality rate. Therefore, we must also consider whether or not there is a pattern of differences between the observed and predicted mortality rates over time. In the case of pacemaker insertions, there is no pattern of such differences over the three years of data presented.

Finally, three of the four patients within the initial pacemaker insertion group, who are represented in the data as mortalities, had dates of deaths more than 30 days following discharge. This raises important concerns about linking the patients deaths with the pacemaker insertion. In fact, the pacemaker insertion procedure was found to have extended the life of each patient and the patients' deaths were found to have occurred for reasons unrelated to the pacemaker procedure.

The Medicare Hospital Mortality Information provided to Mercy Memorial Hospital will continue to be considered as part of our ongoing patient care improvement program. Since the data is limited to showing differences in mortality among the hospital patient population, the quality improvement program will determine why there is a difference and whether that difference is meaningful with regard to the services provided to our patients. In addition, mortality data does not directly measure the quality of patient care, so this data will be added to the data being collected on a regular basis by the medical staff and the hospital in Mercy Memorial's continuous effort to provide our community with quality care and services.

Sincerely,

Pat Curtis

Pat Curtis
Quality Improvement/
Risk Management Director

METROPOLITAN HOSPITAL

1919 Boston S E
Grand Rapids, MI 49506

Medicare Provider Number: 230236

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,771	9.5	9.1	1.0	15.0	13.7	1.4	18.1	17.2	1.7
CONDITIONS:										
Acute Myocardial Infarction	60	28.3	22.6	6.0	36.7	26.0	7.5	41.7	29.3	8.4
Congestive Heart Failure	82	12.2	12.4	3.9	17.1	19.3	5.0	23.2	25.2	5.6
Pneumonia/Influenza	88	18.2	16.2	5.6	25.0	22.1	4.9	28.4	26.6	4.9
Chronic Obstructive Pulmonary Disease	20	5.0	8.1	*	15.0	12.8	*	20.0	16.8	*
Transient Cerebral Ischemia	15	0.0	1.1	*	0.0	2.6	*	0.0	4.2	*
Stroke	89	20.2	21.1	4.7	30.3	28.0	7.9	36.0	32.5	8.5
Hip Fracture	43	2.3	5.7	*	4.7	10.1	*	4.7	13.2	*
Sepsis	22	40.9	35.0	*	50.0	42.2	*	54.5	48.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	10	0.0	2.8	*	10.0	5.7	*	10.0	8.6	*
Carotid Endarterectomy	9	0.0	1.2	*	0.0	2.0	*	0.0	3.1	*
Hip Replacement/Reconstruction	30	0.0	3.2	*	0.0	6.3	*	0.0	8.7	*
Open Reduction of Hip Fracture	24	4.2	4.8	*	8.3	8.9	*	8.3	11.7	*
Prostatectomy	103	0.0	0.7	2.4	3.9	1.7	2.2	3.9	2.9	2.0
Cholecystectomy	46	2.2	3.0	*	2.2	5.3	*	2.2	7.0	*
Hysterectomy	9	0.0	0.5	*	0.0	1.1	*	0.0	1.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	198
Occupancy Rate	66
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	123
Percent of Physicians Board Certified Specialists	46
Medical Residents/Interns	48
Registered Nurses	209
Licensed Practical Nurses	66

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

METROPOLITAN HOSPITAL

Medicare Provider Number: 230236

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,727	9.3	9.1	0.7	14.6	13.7	1.1	18.5	17.3	1.4
CONDITIONS:										
Acute Myocardial Infarction	58	24.1	25.2	5.8	29.3	28.1	6.6	36.2	31.4	7.1
Congestive Heart Failure	65	7.7	14.9	6.7	16.9	22.6	7.0	21.5	29.0	7.2
Pneumonia/Influenza	78	17.9	16.2	4.4	21.8	21.6	4.7	26.9	25.9	5.1
Chronic Obstructive Pulmonary Disease	18	0.0	8.2	*	11.1	13.1	*	16.7	17.3	*
Transient Cerebral Ischemia	24	4.2	2.0	*	4.2	4.6	*	8.3	7.7	*
Stroke	88	19.3	19.9	5.5	26.1	26.5	5.0	30.7	30.8	4.9
Hip Fracture	42	7.1	7.2	*	9.5	13.2	*	21.4	17.1	*
Sepsis	11	45.5	32.6	*	54.5	38.6	*	54.5	44.3	*
PROCEDURES:										
Angioplasty	1	0.0	9.9	*	0.0	12.7	*	0.0	15.8	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	1.3	*	0.0	2.6	*	0.0	4.1	*
Carotid Endarterectomy	14	0.0	1.4	*	0.0	2.7	*	0.0	4.0	*
Hip Replacement/Reconstruction	18	0.0	4.4	*	0.0	8.7	*	0.0	11.7	*
Open Reduction of Hip Fracture	28	7.1	5.8	*	10.7	11.2	*	28.6	15.0	*
Prostatectomy	77	3.9	0.9	2.3	5.2	2.2	2.7	6.5	3.7	3.4
Cholecystectomy	44	9.1	4.4	*	11.4	7.9	*	13.6	10.1	*
Hysterectomy	8	0.0	0.3	*	0.0	0.6	*	0.0	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,704	10.2	9.2	1.0	15.3	13.6	1.4	18.5	17.0	1.6
CONDITIONS:										
Acute Myocardial Infarction	50	24.0	29.7	*	28.0	33.5	*	28.0	37.0	*
Congestive Heart Failure	53	18.9	18.1	6.4	32.1	27.0	8.6	35.8	34.1	9.1
Pneumonia/Influenza	68	13.2	16.1	5.6	20.6	21.3	5.1	26.5	25.2	5.4
Chronic Obstructive Pulmonary Disease	29	17.2	10.1	*	17.2	16.8	*	24.1	22.5	*
Transient Cerebral Ischemia	28	3.6	2.0	*	14.3	4.4	*	14.3	6.9	*
Stroke	81	18.5	22.6	5.8	29.6	29.9	5.3	33.3	34.3	6.1
Hip Fracture	30	10.0	7.7	*	13.3	13.9	*	16.7	18.0	*
Sepsis	11	54.5	30.5	*	63.6	39.3	*	63.6	45.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	8	0.0	3.0	*	0.0	6.1	*	0.0	9.3	*
Carotid Endarterectomy	20	5.0	1.3	*	5.0	2.5	*	5.0	3.5	*
Hip Replacement/Reconstruction	21	4.8	3.7	*	4.8	7.1	*	9.5	9.6	*
Open Reduction of Hip Fracture	18	5.6	7.0	*	5.6	13.1	*	5.6	17.0	*
Prostatectomy	107	1.9	1.0	1.4	2.8	2.3	2.1	3.7	3.8	2.6
Cholecystectomy	47	6.4	4.3	*	10.6	7.3	*	10.6	9.3	*
Hysterectomy	4	0.0	1.1	*	0.0	2.2	*	0.0	3.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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METROPOLITAN
HOSPITAL

1919 BOSTON, S E
PO BOX 158
GRAND RAPIDS, MICHIGAN 49501-0158
(616) 247-7200

January 15, 1991

Mrs. Sandra Kappert
Health Standards & Quality Bureau
Health Care Financing Administration
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Mrs. Kappert: RE: Hospital ID#230236

Thank you for this opportunity to preview and comment on the mortality information for Medicare patients hospitalized at our facility for FY1989.

It is a well known fact that such data in itself is not a meaningful guide to a hospital's performance. However, the changes in the presentation of the data analysis are encouraging. Less emphasis should be placed on those institutions that fall outside the range of expected mortality and more emphasis placed on the significance of the difference between observed and predicted rates.

We do not feel the mortality information presented in this report can be presumed to be the definitive measurement of quality of care. It would be improper to assume that hospitals exceed their expected mortality rates only because of poor quality care. Other factors can explain this difference. Individual patient characteristics have a large impact on the expected mortality rate, as does the availability of appropriate care after hospitalization, the availability and quality of nursing home, or home health care available in the community.

The mortality data for Metropolitan Hospital is however a useful screening tool to analyze the quality and appropriateness of services provided. At the 95 percent confidence level, the difference between our observed and expected rates is more likely the result of random variation. Indeed, our actual mortality rate for Medicare patients is less than stated in the HCFA report. We will use this mortality data however to look for patterns of greater than expected mortality, or changes in patterns over time. When a difference is identified and worthy of further analysis, a clinical review of deaths occurs. It is only through peer review of the actual care provided that identification of a probelm with the process of care can be made.

Metropolitan Hospital is committed to providing quality of care, monitoring the appropriateness of care and the effectiveness of the programs and services we provide. The information supplied by HCFA is incorporated into our internal review system and shared with our Medical Staff for evaluation and making changes to improve patient care.

Sincerely,

F J McCarthy

Francis J. McCarthy
President

FJM:TW:sa

MICHIGAN HEALTH CENTER

2700 Martin Luther King Jr Blvd
Detroit, MI 48208

Medicare Provider Number: 230221

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	809	8.3	10.2	1.5	13.5	15.8	1.9	17.4	20.0	2.2
CONDITIONS:										
Acute Myocardial Infarction	17	23.5	30.7	*	23.5	33.8	*	23.5	37.4	*
Congestive Heart Failure	129	8.5	12.3	3.5	14.7	19.7	5.0	17.8	26.1	5.8
Pneumonia/Influenza	52	7.7	15.9	9.1	11.5	21.7	10.3	19.2	26.5	9.3
Chronic Obstructive Pulmonary Disease	18	0.0	11.6	*	11.1	18.5	*	22.2	24.5	*
Transient Cerebral Ischemia	19	5.3	1.4	*	5.3	2.9	*	5.3	4.6	*
Stroke	44	11.4	15.0	*	18.2	21.4	*	22.7	25.5	*
Hip Fracture	8	0.0	5.9	*	12.5	10.2	*	12.5	13.1	*
Sepsis	9	11.1	29.7	*	22.2	42.5	*	55.6	49.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	3.1	*	0.0	6.7	*	0.0	10.0	*
Carotid Endarterectomy	2	0.0	0.7	*	0.0	1.1	*	0.0	1.5	*
Hip Replacement/Reconstruction	3	0.0	5.1	*	33.3	9.4	*	33.3	12.3	*
Open Reduction of Hip Fracture	3	0.0	5.0	*	0.0	9.1	*	0.0	11.8	*
Prostatectomy	21	0.0	1.8	*	4.8	4.2	*	9.5	6.5	*
Cholecystectomy	8	0.0	1.7	*	0.0	2.7	*	0.0	3.3	*
Hysterectomy	3	0.0	0.2	*	0.0	0.4	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	266
Occupancy Rate	83
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	133
Percent of Physicians Board Certified Specialists	52
Medical Residents/Interns	71
Registered Nurses	156
Licensed Practical Nurses	44

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MICHIGAN HEALTH CENTER

Medicare Provider Number: 230221

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	874	7.9	10.3	1.2	14.6	15.9	1.3	20.1	20.2	1.4
CONDITIONS:										
Acute Myocardial Infarction	18	22.2	28.2	*	22.2	31.8	*	22.2	35.7	*
Congestive Heart Failure	109	11.9	13.7	3.9	23.9	21.5	4.1	33.0	27.9	5.0
Pneumonia/Influenza	33	18.2	16.1	*	24.2	21.7	*	27.3	26.1	*
Chronic Obstructive Pulmonary Disease	20	10.0	11.0	*	20.0	18.2	*	20.0	23.9	*
Transient Cerebral Ischemia	17	0.0	2.0	*	0.0	4.5	*	0.0	7.0	*
Stroke	43	2.3	15.5	*	7.0	22.1	*	20.9	26.4	*
Hip Fracture	3	0.0	6.6	*	33.3	13.2	*	33.3	17.7	*
Sepsis	15	0.0	27.7	*	40.0	39.4	*	53.3	46.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	5	20.0	5.1	*	20.0	9.7	*	40.0	13.4	*
Carotid Endarterectomy	2	0.0	2.0	*	0.0	4.6	*	0.0	7.1	*
Hip Replacement/Reconstruction	4	0.0	4.8	*	25.0	9.8	*	50.0	13.4	*
Open Reduction of Hip Fracture	0									
Prostatectomy	27	0.0	0.8	*	0.0	1.8	*	3.7	2.8	*
Cholecystectomy	7	0.0	2.6	*	0.0	5.4	*	0.0	7.8	*
Hysterectomy	3	0.0	0.2	*	0.0	0.6	*	0.0	0.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	865	7.7	10.9	1.9	16.2	16.9	1.3	22.4	21.2	1.5
CONDITIONS:										
Acute Myocardial Infarction	32	15.6	23.0	*	25.0	26.9	*	28.1	30.5	*
Congestive Heart Failure	95	4.2	14.3	5.0	15.8	21.9	5.0	27.4	28.4	4.7
Pneumonia/Influenza	52	17.3	16.0	5.8	25.0	22.0	6.4	34.6	26.7	9.3
Chronic Obstructive Pulmonary Disease	14	0.0	11.5	*	0.0	18.9	*	0.0	24.4	*
Transient Cerebral Ischemia	7	0.0	2.2	*	14.3	4.9	*	14.3	7.7	*
Stroke	38	21.1	20.3	*	28.9	28.1	*	34.2	32.7	*
Hip Fracture	5	0.0	11.7	*	0.0	20.6	*	20.0	25.8	*
Sepsis	15	13.3	26.8	*	40.0	36.3	*	46.7	42.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	8	0.0	4.2	*	12.5	8.8	*	12.5	12.8	*
Carotid Endarterectomy	1	0.0	1.5	*	0.0	2.8	*	0.0	3.9	*
Hip Replacement/Reconstruction	6	0.0	3.0	*	0.0	5.5	*	0.0	7.2	*
Open Reduction of Hip Fracture	2	0.0	17.9	*	0.0	33.1	*	50.0	42.2	*
Prostatectomy	28	0.0	0.8	*	0.0	2.0	*	3.6	3.4	*
Cholecystectomy	11	0.0	2.5	*	0.0	4.9	*	9.1	6.9	*
Hysterectomy	1	0.0	0.1	*	0.0	0.2	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MIDMICHIGAN REGIONAL MED CTR-MIDLAND

4005 Orchard Drive
Midland, MI 48640

Medicare Provider Number: 230222

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,112	8.1	9.0	0.8	13.1	13.9	1.1	17.0	17.9	1.0
CONDITIONS:										
Acute Myocardial Infarction	70	30.0	30.8	5.5	32.9	33.8	5.7	37.1	37.1	5.9
Congestive Heart Failure	84	14.3	14.7	3.9	20.2	22.4	4.7	31.0	28.9	5.1
Pneumonia/Influenza	86	19.8	17.6	5.7	29.1	23.9	7.0	33.7	28.9	9.8
Chronic Obstructive Pulmonary Disease	12	8.3	5.7	*	16.7	11.6	*	33.3	17.1	*
Transient Cerebral Ischemia	48	2.1	1.5	*	2.1	3.3	*	6.3	5.1	*
Stroke	79	24.1	21.3	5.4	27.8	27.5	5.1	30.4	32.0	6.1
Hip Fracture	55	5.5	6.5	3.4	7.3	11.5	5.2	12.7	15.0	5.1
Sepsis	20	40.0	27.7	*	45.0	37.1	*	50.0	44.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	18	5.6	1.9	*	5.6	3.8	*	5.6	5.8	*
Carotid Endarterectomy	44	2.3	1.2	*	4.5	2.2	*	6.8	3.2	*
Hip Replacement/Reconstruction	64	1.6	2.2	2.6	1.6	4.2	3.6	4.7	5.6	3.2
Open Reduction of Hip Fracture	29	3.4	5.7	*	6.9	10.6	*	13.8	14.0	*
Prostatectomy	70	0.0	0.6	1.7	1.4	1.3	2.7	4.3	2.3	3.3
Cholecystectomy	31	3.2	2.5	*	6.5	4.5	*	9.7	6.4	*
Hysterectomy	15	0.0	0.3	*	0.0	0.6	*	0.0	0.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	307
Occupancy Rate	72
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	114
Percent of Physicians Board Certified Specialists	78
Medical Residents/Interns	18
Registered Nurses	227
Licensed Practical Nurses	90

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MIDMICHIGAN REGIONAL MED CTR-MIDLAND

Medicare Provider Number: 230222

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,979	7.5	8.5	1.2	12.7	13.4	1.1	16.5	17.3	1.1
CONDITIONS:										
Acute Myocardial Infarction	44	18.2	26.8	*	18.2	29.9	*	22.7	33.2	*
Congestive Heart Failure	64	10.9	17.1	9.5	17.2	25.7	10.8	28.1	32.6	8.6
Pneumonia/Influenza	74	18.9	17.2	4.5	28.4	23.1	5.9	29.7	27.9	5.5
Chronic Obstructive Pulmonary Disease	16	6.3	8.0	*	6.3	12.7	*	6.3	16.8	*
Transient Cerebral Ischemia	50	0.0	1.6	*	2.0	3.3	*	4.0	5.1	*
Stroke	57	26.3	22.6	7.4	33.3	29.0	7.0	33.3	33.6	7.2
Hip Fracture	67	7.5	7.5	4.6	14.9	13.3	4.8	17.9	17.0	7.0
Sepsis	21	23.8	30.4	*	33.3	39.9	*	33.3	46.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	14	0.0	4.8	*	0.0	7.0	*	0.0	9.1	*
Carotid Endarterectomy	34	0.0	1.2	*	0.0	2.2	*	2.9	3.1	*
Hip Replacement/Reconstruction	64	3.1	3.0	2.2	6.3	5.9	3.0	7.8	8.0	4.5
Open Reduction of Hip Fracture	37	5.4	7.0	*	10.8	12.9	*	16.2	16.6	*
Prostatectomy	75	0.0	1.2	2.0	2.7	2.6	2.2	4.0	4.0	3.2
Cholecystectomy	34	0.0	2.4	*	0.0	4.5	*	0.0	6.0	*
Hysterectomy	17	0.0	0.4	*	0.0	0.9	*	0.0	1.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,917	7.8	8.8	1.0	12.2	13.5	1.2	16.0	17.3	1.2
CONDITIONS:										
Acute Myocardial Infarction	70	31.4	29.8	6.5	32.9	33.2	5.9	34.3	36.7	6.1
Congestive Heart Failure	62	16.1	17.7	5.0	25.8	26.3	6.7	32.3	33.3	6.1
Pneumonia/Influenza	59	11.9	17.7	8.6	18.6	24.4	10.2	23.7	29.8	10.0
Chronic Obstructive Pulmonary Disease	21	4.8	9.4	*	9.5	15.7	*	19.0	20.8	*
Transient Cerebral Ischemia	48	2.1	1.8	*	4.2	3.7	*	6.3	5.7	*
Stroke	74	24.3	22.3	5.1	27.0	29.0	5.8	31.1	33.7	6.1
Hip Fracture	60	5.0	6.6	5.3	8.3	11.7	6.2	11.7	15.2	5.9
Sepsis	19	5.3	24.8	*	15.8	32.0	*	36.8	37.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	10	30.0	9.8	*	30.0	17.1	*	30.0	21.7	*
Carotid Endarterectomy	38	0.0	1.7	*	0.0	3.2	*	0.0	4.6	*
Hip Replacement/Reconstruction	58	1.7	2.3	2.8	1.7	4.3	4.1	1.7	5.7	4.8
Open Reduction of Hip Fracture	28	3.6	6.6	*	7.1	12.1	*	14.3	15.7	*
Prostatectomy	88	1.1	0.7	1.3	1.1	1.8	2.0	1.1	3.2	3.2
Cholecystectomy	31	0.0	3.0	*	3.2	4.7	*	3.2	5.9	*
Hysterectomy	20	5.0	0.6	*	5.0	1.3	*	5.0	2.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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4005 Orchard Drive

Midland, Michigan 48670

517 • 839 • 3000 FAX 517 • 839 • 3307

MIDMICHIGAN
REGIONAL MEDICAL CENTER

MEDICARE PROVIDERS #230222

January 15, 1991

Ms. Sandra Kappert
Health Care Financing Administration
Health Standards & Quality Bureau
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Ms. Kappert:

Thank you for sharing our 1989 Medicare Mortality Data with us prior to its public release. We are pleased to have the opportunity to review it and to have our comments published with our data.

A review of our data for 1987, 1988 and 1989 does not reveal any negative trends from year to year, or by condition, or procedure, at our Medical Center. In addition, differences between observed and predicted rates do not appear to be meaningful or significant, but rather a reflection of the small number of cases in the category.

Although HCFA continues to make changes in its methodology, the value of the information as a measure of hospital quality remains uncertain. At best, the data may be helpful to clinicians and hospital administrators as a screen to help them identify areas for possible further study. We will, as we have in past years, do a case-by-case review. However, we have a strong internal quality assurance program that has been in place for many years, and it is unlikely that any new information will be gleaned from this review. Especially now, when the data includes deaths occurring as long as 180 days after admission, it would appear possible that factors outside the hospital may contribute to an individual's death.

Analyzing this data does require a significant commitment of resources. We encourage HCFA to continue to conduct studies to assess the effectiveness of this information.

In the meantime, we would encourage anyone with a question relative to our data, to ask his or her physician, or to contact a member of the Medical Center's administration.

Sincerely,

David A. Reece

David A. Reece
President

QUALITY DRIVEN
CUSTOMER FOCUSED

MIDMICHIGAN REGIONAL MEDICAL CTR-CLARE

104 West Sixth Street
Clare, MI 48617

Medicare Provider Number: 230180

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	639	8.6	9.7	1.2	11.6	13.8	1.5	12.7	17.1	1.9
CONDITIONS:										
Acute Myocardial Infarction	40	32.5	28.6	*	35.0	31.8	*	35.0	35.5	*
Congestive Heart Failure	32	0.0	13.2	*	9.4	20.4	*	9.4	26.6	*
Pneumonia/Influenza	61	11.5	13.6	6.5	13.1	18.6	7.8	13.1	22.9	9.7
Chronic Obstructive Pulmonary Disease	8	25.0	11.5	*	25.0	19.6	*	25.0	25.4	*
Transient Cerebral Ischemia	15	0.0	2.1	*	0.0	4.9	*	6.7	8.0	*
Stroke	30	16.7	15.5	*	20.0	21.3	*	26.7	25.3	*
Hip Fracture	1	0.0	3.2	*	0.0	6.1	*	0.0	8.3	*
Sepsis	12	33.3	28.7	*	50.0	35.8	*	50.0	42.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	32	0.0	0.6	*	0.0	1.3	*	0.0	2.3	*
Cholecystectomy	16	6.3	2.1	*	12.5	3.4	*	12.5	4.4	*
Hysterectomy	8	0.0	0.5	*	0.0	1.1	*	0.0	1.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1988

Total Beds	64
Ownership/Control	Private, Non-Profit
STAFFING:	
Medical Residents/Interns	0
Registered Nurses	38
Licensed Practical Nurses	30

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	No
Hospice	Yes
Intensive Care Unit	Yes
Organ Transplant	No
Rehabilitation	Yes
Shock Trauma	No

**** Not used in calculating hospital mortality rates.**

MIDMICHIGAN REGIONAL MEDICAL CTR-CLARE

Medicare Provider Number: 230180

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	668	11.8	10.9	1.4	15.4	15.5	1.8	17.4	19.1	1.7
CONDITIONS:										
Acute Myocardial Infarction	42	23.8	29.2	*	28.6	32.3	*	31.0	35.9	*
Congestive Heart Failure	42	19.0	14.0	*	28.6	21.3	*	35.7	27.5	*
Pneumonia/Influenza	52	17.3	16.6	5.6	21.2	22.2	6.0	26.9	26.7	6.3
Chronic Obstructive Pulmonary Disease	10	20.0	9.9	*	30.0	16.7	*	30.0	22.1	*
Transient Cerebral Ischemia	22	0.0	1.8	*	4.5	3.8	*	4.5	5.9	*
Stroke	25	20.0	20.9	*	24.0	28.0	*	28.0	32.9	*
Hip Fracture	2	0.0	3.9	*	50.0	7.1	*	50.0	9.9	*
Sepsis	19	52.6	27.7	*	52.6	34.7	*	52.6	40.5	*
PROCEDURE:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	50.0	19.3	*	50.0	23.3	*	50.0	27.5	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	29	3.4	3.0	*	3.4	5.0	*	3.4	6.8	*
Cholecystectomy	10	0.0	1.7	*	0.0	2.7	*	0.0	3.4	*
Hysterectomy	6	0.0	0.3	*	0.0	0.5	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	641	10.8	10.4	2.0	16.1	15.0	2.0	18.7	18.8	1.7
CONDITIONS:										
Acute Myocardial Infarction	34	32.4	25.4	*	38.2	28.7	*	41.2	32.2	*
Congestive Heart Failure	47	14.9	15.7	*	27.7	23.9	*	29.8	30.9	*
Pneumonia/Influenza	57	15.8	16.5	5.7	19.3	22.5	7.6	22.8	27.5	8.5
Chronic Obstructive Pulmonary Disease	14	21.4	9.9	*	28.6	16.6	*	35.7	22.0	*
Transient Cerebral Ischemia	20	0.0	2.1	*	0.0	4.8	*	0.0	7.8	*
Stroke	24	25.0	17.4	*	33.3	24.3	*	33.3	29.0	*
Hip Fracture	1	0.0	3.5	*	0.0	6.8	*	0.0	9.5	*
Sepsis	14	21.4	19.7	*	21.4	24.8	*	28.6	29.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	11	0.0	0.7	*	0.0	1.7	*	9.1	3.0	*
Cholecystectomy	6	0.0	1.5	*	0.0	2.9	*	0.0	3.8	*
Hysterectomy	9	0.0	0.8	*	0.0	1.4	*	0.0	1.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MIDMICHIGAN REGIONAL MEDICAL CTR-GLADWIN

455 Quarter Street
Gladwin, MI 48624

Medicare Provider Number: 230189

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	478	7.1	7.9	1.3	11.5	12.3	1.7	13.2	15.8	2.1
CONDITIONS:										
Acute Myocardial Infarction	17	17.6	15.6	*	17.6	19.5	*	23.5	23.2	*
Congestive Heart Failure	35	14.3	13.9	*	17.1	21.2	*	17.1	27.6	*
Pneumonia/Influenza	37	8.1	16.1	*	24.3	21.8	*	29.7	26.4	*
Chronic Obstructive Pulmonary Disease	3	0.0	14.8	*	0.0	23.1	*	33.3	29.6	*
Transient Cerebral Ischemia	25	0.0	2.0	*	4.0	4.5	*	8.0	7.2	*
Stroke	22	31.8	18.8	*	36.4	25.4	*	36.4	29.6	*
Hip Fracture	0									
Sepsis	1	0.0	13.9	*	0.0	19.1	*	0.0	24.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	7	0.0	0.7	*	0.0	1.2	*	0.0	1.7	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	42
Occupancy Rate	50
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	10
Percent of Physicians Board Certified Specialists	40
Medical Residents/Interns	0
Registered Nurses	19
Licensed Practical Nurses	19

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MIDMICHIGAN REGIONAL MEDICAL CTR-GLADWIN

Medicare Provider Number: 230189

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	445	4.9	7.6	1.7	8.1	12.0	2.2	10.6	15.6	2.5
CONDITIONS:										
Acute Myocardial Infarction	13	7.7	15.3	*	7.7	19.1	*	23.1	22.7	*
Congestive Heart Failure	32	18.8	16.1	*	21.9	23.6	*	28.1	30.2	*
Pneumonia/Influenza	24	12.5	15.8	*	20.8	21.6	*	20.8	26.2	*
Chronic Obstructive Pulmonary Disease	18	0.0	5.5	*	0.0	10.3	*	0.0	14.7	*
Transient Cerebral Ischemia	20	5.0	2.0	*	10.0	4.4	*	10.0	7.0	*
Stroke	22	0.0	15.1	*	9.1	22.0	*	9.1	26.4	*
Hip Fracture	0									
Sepsis	3	0.0	18.9	*	0.0	23.5	*	33.3	28.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	6	0.0	1.3	*	0.0	2.5	*	0.0	3.5	*
Hysterectomy	2	0.0	0.3	*	0.0	0.5	*	0.0	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	469	6.8	7.4	1.3	12.2	11.6	1.7	14.9	15.2	1.7
CONDITIONS:										
Acute Myocardial Infarction	16	37.5	22.3	*	56.3	26.7	*	56.3	30.4	*
Congestive Heart Failure	20	20.0	14.9	*	35.0	22.3	*	35.0	28.9	*
Pneumonia/Influenza	45	8.9	14.1	*	8.9	19.5	*	13.3	23.9	*
Chronic Obstructive Pulmonary Disease	16	0.0	7.9	*	0.0	14.4	*	6.3	19.6	*
Transient Cerebral Ischemia	24	0.0	2.1	*	8.3	4.7	*	16.7	7.5	*
Stroke	15	13.3	16.0	*	26.7	22.3	*	33.3	26.6	*
Hip Fracture	0									
Sepsis	4	0.0	15.9	*	0.0	22.6	*	0.0	27.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	8	0.0	1.6	*	0.0	2.8	*	0.0	3.7	*
Hysterectomy	1	0.0	0.5	*	0.0	0.8	*	0.0	1.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MONSIGNOR CLEMENT KERN HOSPITAL

21230 Dequindre Road
Warren, MI 48091

Medicare Provider Number: 230264

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	25	0.0	0.5	*	0.0	1.1	*	4.0	1.7	*
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	45
Occupancy Rate	22
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	59
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	10
Registered Nurses	25
Licensed Practical Nurses	2

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MONSIGNOR CLEMENT KERN HOSPITAL

Medicare Provider Number: 230264

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	34	0.0	0.9	*	0.0	1.9	*	0.0	2.8	*
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	19	0.0	0.8	*	0.0	1.5	*	0.0	2.0	*
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MORENCI AREA HOSPITAL

13101 Sims Highway
Morenci, MI 49256

Medicare Provider Number: 230113

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	96	8.3	7.2	3.1	13.5	11.0	4.2	15.6	14.3	3.8
CONDITIONS:										
Acute Myocardial Infarction	1	100.0	32.5	*	100.0	34.7	*	100.0	37.9	*
Congestive Heart Failure	18	16.7	12.6	*	16.7	19.8	*	22.2	26.2	*
Pneumonia/Influenza	11	18.2	14.2	*	27.3	18.6	*	27.3	22.3	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	2	0.0	1.1	*	0.0	2.0	*	0.0	3.1	*
Stroke	1	0.0	42.4	*	100.0	52.0	*	100.0	57.7	*
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	1	0.0	1.3	*	0.0	2.4	*	0.0	3.2	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	22
Occupancy Rate	18
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	4
Percent of Physicians Board Certified Specialists	75
Medical Residents/Interns	0
Registered Nurses	15
Licensed Practical Nurses	9

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MORENCI AREA HOSPITAL

Medicare Provider Number: 230113

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	111	8.1	10.0	3.7	15.3	13.8	4.1	17.1	17.0	3.9
CONDITIONS:										
Acute Myocardial Infarction	8	37.5	35.8	*	50.0	39.2	*	50.0	43.2	*
Congestive Heart Failure	12	0.0	15.2	*	16.7	22.8	*	33.3	29.7	*
Pneumonia/Influenza	18	0.0	14.6	*	11.1	19.4	*	11.1	22.8	*
Chronic Obstructive Pulmonary Disease	2	0.0	6.9	*	0.0	13.3	*	0.0	18.8	*
Transient Cerebral Ischemia	3	0.0	1.6	*	0.0	3.2	*	0.0	4.9	*
Stroke	3	100.0	21.2	*	100.0	27.5	*	100.0	32.5	*
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	123	4.1	9.5	3.9	8.1	13.5	4.2	14.6	16.9	3.9
CONDITIONS:										
Acute Myocardial Infarction	7	14.3	32.1	*	14.3	35.0	*	14.3	38.6	*
Congestive Heart Failure	17	0.0	15.9	*	5.9	24.0	*	11.8	30.8	*
Pneumonia/Influenza	12	16.7	14.2	*	25.0	18.8	*	25.0	22.5	*
Chronic Obstructive Pulmonary Disease	1	0.0	28.3	*	0.0	42.4	*	0.0	51.2	*
Transient Cerebral Ischemia	7	0.0	1.2	*	0.0	2.6	*	0.0	4.1	*
Stroke	0									
Hip Fracture	1	0.0	6.5	*	0.0	9.9	*	0.0	11.9	*
Sepsis	1	0.0	22.4	*	0.0	26.6	*	0.0	31.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	1	0.0	0.6	*	0.0	1.1	*	0.0	1.6	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MT CARMEL MERCY HOSPITAL & MED CENTER

6071 W Outer Dr
Detroit, MI 48235

Medicare Provider Number: 230039

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,510	11.8	9.8	1.0	17.3	15.0	1.1	21.2	19.1	1.1
CONDITIONS:										
Acute Myocardial Infarction	68	20.6	26.5	6.7	29.4	29.5	5.9	33.8	32.8	5.7
Congestive Heart Failure	174	13.8	14.2	2.8	20.7	22.4	3.5	26.4	29.2	4.8
Pneumonia/Influenza	92	20.7	18.5	4.2	26.1	25.1	4.6	31.5	30.2	5.2
Chronic Obstructive Pulmonary Disease	22	13.6	13.7	*	13.6	20.3	*	18.2	25.6	*
Transient Cerebral Ischemia	60	0.0	2.0	2.5	3.3	4.5	3.4	5.0	7.2	5.3
Stroke	118	26.3	20.5	7.1	33.1	27.1	6.8	36.4	31.4	6.6
Hip Fracture	54	5.6	8.1	4.4	11.1	13.9	5.3	16.7	17.7	5.3
Sepsis	17	35.3	21.2	*	41.2	28.6	*	41.2	33.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	14	0.0	4.4	*	0.0	7.9	*	7.1	11.0	*
Carotid Endarterectomy	4	0.0	1.6	*	0.0	3.3	*	0.0	4.9	*
Hip Replacement/Reconstruction	31	0.0	3.4	*	3.2	6.0	*	6.5	7.8	*
Open Reduction of Hip Fracture	30	3.3	8.0	*	10.0	14.6	*	16.7	18.8	*
Prostatectomy	70	1.4	0.8	1.2	2.9	1.9	2.6	7.1	3.3	3.7
Cholecystectomy	47	2.1	2.3	*	6.4	4.0	*	6.4	5.4	*
Hysterectomy	11	0.0	0.5	*	0.0	1.1	*	0.0	1.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1989

Total Beds	557
Ownership/Control	Church
STAFFING:	
Medical Residents/Interns	113
Registered Nurses	430
Licensed Practical Nurses	60

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	No
Hospice	Yes
Intensive Care Unit	Yes
Organ Transplant	Yes
Rehabilitation	Yes
Shock Trauma	Yes

**** Not used in calculating hospital mortality rates.**

MT CARMEL MERCY HOSPITAL & MED CENTER

Medicare Provider Number: 230039

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,679	10.9	10.3	0.6	17.1	15.8	0.9	22.1	20.0	1.1
CONDITIONS:										
Acute Myocardial Infarction	75	41.3	29.7	10.0	48.0	32.9	10.6	48.0	36.4	9.8
Congestive Heart Failure	163	11.7	16.9	4.5	18.4	25.6	4.6	30.1	32.5	4.2
Pneumonia/Influenza	71	18.3	16.2	5.8	23.9	21.9	5.2	28.2	26.6	5.6
Chronic Obstructive Pulmonary Disease	34	5.9	11.8	*	11.8	19.0	*	11.8	25.2	*
Transient Cerebral Ischemia	52	1.9	2.0	2.9	5.8	4.6	6.0	13.5	7.3	8.9
Stroke	143	16.1	20.3	4.8	27.3	27.0	3.8	32.2	31.5	4.9
Hip Fracture	53	1.9	7.3	4.7	9.4	13.1	5.2	15.1	16.8	5.3
Sepsis	38	39.5	25.1	*	47.4	36.9	*	57.9	44.4	*
PROCEDURE:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	13	0.0	7.8	*	0.0	10.7	*	0.0	13.5	*
Carotid Endarterectomy	5	0.0	1.1	*	0.0	1.9	*	0.0	2.8	*
Hip Replacement/Reconstruction	33	0.0	4.7	*	0.0	8.8	*	3.0	11.2	*
Open Reduction of Hip Fracture	26	3.8	5.7	*	15.4	11.0	*	19.2	14.7	*
Prostatectomy	79	0.0	1.3	1.6	0.0	3.1	2.9	2.5	4.9	3.0
Cholecystectomy	41	4.9	4.1	*	12.2	7.6	*	14.6	10.0	*
Hysterectomy	14	0.0	0.4	*	0.0	0.9	*	0.0	1.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,604	11.1	10.5	0.7	17.5	16.2	1.1	22.1	20.5	1.2
CONDITIONS:										
Acute Myocardial Infarction	74	21.6	30.2	7.9	25.7	33.3	7.1	32.4	36.6	6.1
Congestive Heart Failure	181	15.5	16.4	4.3	21.5	25.1	4.9	30.9	32.1	3.7
Pneumonia/Influenza	82	23.2	18.1	7.3	37.8	24.4	8.3	41.5	29.5	8.7
Chronic Obstructive Pulmonary Disease	40	12.5	15.2	*	22.5	23.9	*	32.5	29.8	*
Transient Cerebral Ischemia	68	1.5	2.3	2.0	2.9	5.1	3.2	2.9	8.0	5.4
Stroke	123	21.1	21.6	3.7	30.9	28.5	4.5	33.3	33.0	4.2
Hip Fracture	42	9.5	9.0	*	11.9	15.6	*	11.9	19.8	*
Sepsis	48	31.3	28.1	*	52.1	38.6	*	68.8	46.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	19	0.0	4.1	*	0.0	8.0	*	0.0	11.7	*
Carotid Endarterectomy	6	16.7	1.9	*	16.7	3.7	*	16.7	5.5	*
Hip Replacement/Reconstruction	31	3.2	3.4	*	12.9	6.1	*	16.1	8.1	*
Open Reduction of Hip Fracture	27	3.7	8.8	*	3.7	16.1	*	3.7	20.5	*
Prostatectomy	79	1.3	1.2	1.3	3.8	3.0	2.4	5.1	5.0	2.8
Cholecystectomy	34	2.9	3.3	*	8.8	6.3	*	11.8	8.4	*
Hysterectomy	13	7.7	0.9	*	15.4	2.0	*	15.4	3.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MT CLEMENS GENERAL HOSPITAL

1000 Harrington Blvd
Mt Clemens, MI 48043

Medicare Provider Number: 230227

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,940	11.1	9.6	0.9	16.5	14.4	1.1	20.2	18.2	1.2
CONDITIONS:										
Acute Myocardial Infarction	60	35.0	27.3	9.9	38.3	29.9	9.4	38.3	32.9	8.6
Congestive Heart Failure	125	14.4	15.7	3.6	18.4	24.6	4.5	20.0	31.5	5.6
Pneumonia/Influenza	86	22.1	17.3	5.7	33.7	23.7	8.2	38.4	28.7	7.8
Chronic Obstructive Pulmonary Disease	29	10.3	11.6	*	17.2	16.6	*	20.7	21.0	*
Transient Cerebral Ischemia	48	2.1	1.8	*	8.3	4.0	*	10.4	6.6	*
Stroke	48	12.5	21.6	*	20.8	28.0	*	27.1	32.3	*
Hip Fracture	60	6.7	6.1	3.2	8.3	11.0	4.6	15.0	14.4	4.6
Sepsis	21	14.3	22.8	*	19.0	29.5	*	28.6	35.0	*
PROCEDURES:										
Angioplasty	3	0.0	1.1	*	0.0	1.7	*	0.0	2.6	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	8	12.5	3.1	*	25.0	5.9	*	25.0	8.3	*
Carotid Endarterectomy	18	0.0	1.2	*	0.0	2.1	*	0.0	3.1	*
Hip Replacement/Reconstruction	29	6.9	3.0	*	6.9	5.5	*	10.3	7.3	*
Open Reduction of Hip Fracture	39	2.6	6.0	*	5.1	11.2	*	12.8	14.9	*
Prostatectomy	37	0.0	0.7	*	0.0	1.7	*	0.0	2.8	*
Cholecystectomy	32	3.1	4.3	*	9.4	7.0	*	12.5	8.8	*
Hysterectomy	7	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	264
Occupancy Rate	65
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	141
Percent of Physicians Board Certified Specialists	62
Medical Residents/Interns	52
Registered Nurses	189
Licensed Practical Nurses	40

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	Yes

**** Not used in calculating hospital mortality rates.**

MT CLEMENS GENERAL HOSPITAL

Medicare Provider Number: 230227

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,826	10.8	8.5	0.8	16.9	13.1	1.2	20.6	16.7	1.2
CONDITIONS:										
Acute Myocardial Infarction	50	38.0	25.2	*	40.0	28.3	*	42.0	31.6	*
Congestive Heart Failure	94	18.1	15.6	4.6	25.5	24.0	4.6	27.7	31.0	6.2
Pneumonia/Influenza	70	18.6	18.3	4.8	30.0	24.6	6.5	32.9	29.6	6.1
Chronic Obstructive Pulmonary Disease	56	5.4	8.8	4.8	17.9	15.0	5.1	25.0	20.0	6.4
Transient Cerebral Ischemia	43	4.7	2.0	*	4.7	4.2	*	4.7	6.5	*
Stroke	47	29.8	22.5	*	42.6	29.7	*	46.8	34.4	*
Hip Fracture	41	12.2	6.0	*	19.5	10.9	*	22.0	14.1	*
Sepsis	6	50.0	37.8	*	50.0	48.7	*	50.0	55.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	14.3	5.6	*	14.3	10.8	*	14.3	15.1	*
Carotid Endarterectomy	32	3.1	1.1	*	3.1	2.0	*	3.1	3.0	*
Hip Replacement/Reconstruction	31	0.0	2.8	*	3.2	5.3	*	6.5	7.2	*
Open Reduction of Hip Fracture	27	18.5	5.4	*	25.9	10.3	*	29.6	13.5	*
Prostatectomy	35	0.0	0.6	*	2.9	1.5	*	5.7	2.5	*
Cholecystectomy	36	2.8	4.2	*	2.8	7.1	*	5.6	9.3	*
Hysterectomy	10	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,513	10.8	9.3	1.0	16.5	14.1	1.3	20.7	17.9	1.5
CONDITIONS:										
Acute Myocardial Infarction	55	45.5	28.3	10.1	45.5	31.6	10.6	50.9	34.8	10.0
Congestive Heart Failure	82	22.0	16.1	5.4	32.9	24.5	6.0	40.2	31.3	6.6
Pneumonia/Influenza	60	18.3	16.9	5.4	21.7	22.6	5.7	23.3	27.3	8.2
Chronic Obstructive Pulmonary Disease	31	9.7	16.7	*	29.0	26.1	*	29.0	32.0	*
Transient Cerebral Ischemia	46	2.2	2.0	*	2.2	4.3	*	8.7	6.9	*
Stroke	44	22.7	21.8	*	27.3	28.1	*	29.5	32.2	*
Hip Fracture	32	3.1	7.7	*	6.3	13.7	*	12.5	17.5	*
Sepsis	12	25.0	33.4	*	41.7	39.8	*	41.7	46.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	8	12.5	3.8	*	12.5	7.1	*	25.0	10.1	*
Carotid Endarterectomy	22	0.0	1.5	*	4.5	3.0	*	4.5	4.3	*
Hip Replacement/Reconstruction	15	6.7	2.9	*	6.7	5.4	*	6.7	7.0	*
Open Reduction of Hip Fracture	25	0.0	6.8	*	0.0	12.8	*	4.0	16.6	*
Prostatectomy	28	0.0	0.7	*	3.6	1.5	*	3.6	2.4	*
Cholecystectomy	27	11.1	1.9	*	11.1	3.4	*	11.1	4.3	*
Hysterectomy	7	14.3	2.3	*	14.3	4.8	*	28.6	7.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

1000 Harrington Boulevard
Mount Clemens, Michigan 48043
Telephone (313) 466-8000

MOUNT CLEMENS GENERAL HOSPITAL
Medicare Provider
Number: 230227

January 14, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, MD 21207

Attention: Ms. Sandra Kappert

Dear Ms. Kappert:

This is in response to your invitation to comment upon the mortality data for Mount Clemens General Hospital, dated December 5, 1990.

We have reviewed the data and your methodology and philosophy in accumulating your statistics. We wish to make, what we believe to be, constructive comments in both areas.

1) You state that your public release of this material will include the 90 and 180 day mortality data. This is a matter of concern to us. We acknowledge that these numbers may provide you with more realistic predicted death figures. However, we reviewed our own cases from the patient data you provided and could find no correlation between the patient's diagnosis and status at the time of discharge from the hospital and the patient's ultimate demise 90 or 180 days later.

While the patient may ultimately have succumbed to the disease which led to their first admission, the implication is that treatment during that admission was less than optimal. We feel that this is simply a reflection of the natural history of the disease in question, and the suggestion that it reflects upon the quality of care is not only untrue, but misleading and improper.

2) We wish to comment on the data relating to "Procedures". The case selection appeared to have no relationship to whether the procedure in question was done as the primary treatment for a disease, was done as a means to preserve or prolong life in an otherwise hopeless situation or whether it was done as an adjunct to treatment for an otherwise unrelated disorder. For example, if a temporary transvenous pacemaker is inserted in an effort to control a potentially fatal arrhythmia in a patient who is deteriorating and not responding to medical treatment, and the patient dies, the mortality is tied in to the use of a pacemaker in your data. Once again, this implies inappropriate use of a pacemaker, whereas the pacemaker was used in an effort to save a life. Similarly, if a patient has a hip replaced secondary to multiple trauma or to metastatic disease, and ultimately dies as the end result of multiple system failure from their trauma or malignancy, the hip replacement should not be "charged" with the death. We believe the data relating to deaths associated with specific operative procedures should indicate only those deaths wherein the procedure cited was the primary treatment for a disease.

We have attached a list of cases and comments specific to our institution for your consideration.

We are pleased and impressed with the extensive data you have collected and wish to express our thanks for the opportunity to respond and present our point of view.

Sincerely,

Susan Edwards
Susan Edwards
Chief Operating Officer

L. E. W. Holmberg Jr
L.E.W. Holmberg, Jr.
Administrative Director
Quality and Resource Management

SE/LEH/nw

Attachment:

MUNISING MEMORIAL HOSPITAL

Sand Point Rd
Munising, MI 49862

Medicare Provider Number: 230116

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	180	14.4	8.8	2.9	18.9	13.2	3.5	23.9	16.8	4.2
CONDITIONS:										
Acute Myocardial Infarction	10	40.0	22.6	*	50.0	26.2	*	50.0	29.9	*
Congestive Heart Failure	6	0.0	16.9	*	0.0	25.2	*	16.7	32.6	*
Pneumonia/Influenza	11	18.2	12.6	*	18.2	17.8	*	36.4	22.2	*
Chronic Obstructive Pulmonary Disease	4	25.0	12.8	*	25.0	19.9	*	25.0	25.8	*
Transient Cerebral Ischemia	3	0.0	2.1	*	0.0	5.1	*	0.0	8.4	*
Stroke	16	43.8	19.4	*	43.8	25.2	*	43.8	29.7	*
Hip Fracture	0									
Sepsis	1	100.0	18.2	*	100.0	26.4	*	100.0	31.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	1	0.0	1.3	*	0.0	2.5	*	0.0	3.4	*
Hysterectomy	1	0.0	0.1	*	0.0	0.2	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1987

Total Beds	40
Ownership/Control	Private, Non-Profit
STAFFING:	
Medical Residents/Interns	0
Registered Nurses	9
Licensed Practical Nurses	4

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	No
Hospice	No
Intensive Care Unit	No
Organ Transplant	No
Rehabilitation	No
Shock Trauma	No

**** Not used in calculating hospital mortality rates.**

MUNISING MEMORIAL HOSPITAL

Medicare Provider Number: 230116

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	216	13.0	8.5	2.9	16.7	12.9	2.9	20.8	16.4	3.4
CONDITIONS:										
Acute Myocardial Infarction	5	80.0	29.9	*	80.0	32.6	*	100.0	36.2	*
Congestive Heart Failure	16	31.3	14.1	*	43.8	21.6	*	43.8	27.9	*
Pneumonia/Influenza	4	25.0	10.5	*	25.0	14.6	*	25.0	18.0	*
Chronic Obstructive Pulmonary Disease	4	0.0	11.2	*	0.0	17.1	*	0.0	22.0	*
Transient Cerebral Ischemia	3	0.0	2.2	*	0.0	5.7	*	0.0	10.0	*
Stroke	21	28.6	18.7	*	33.3	24.4	*	38.1	28.9	*
Hip Fracture	1	0.0	3.2	*	0.0	6.2	*	0.0	7.9	*
Sepsis	2	50.0	31.3	*	50.0	41.3	*	50.0	47.4	*
PROCEDURE:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	2	0.0	1.4	*	0.0	2.2	*	0.0	2.8	*
Hysterectomy	2	0.0	3.8	*	0.0	7.1	*	0.0	10.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	214	18.2	9.3	3.4	22.4	13.9	3.3	25.2	17.9	3.5
CONDITIONS:										
Acute Myocardial Infarction	10	40.0	29.8	*	40.0	32.9	*	40.0	37.0	*
Congestive Heart Failure	9	22.2	17.2	*	55.6	26.9	*	55.6	34.6	*
Pneumonia/Influenza	10	30.0	17.4	*	40.0	25.0	*	50.0	30.4	*
Chronic Obstructive Pulmonary Disease	8	50.0	9.7	*	50.0	16.1	*	50.0	20.9	*
Transient Cerebral Ischemia	3	0.0	4.2	*	0.0	9.5	*	0.0	15.5	*
Stroke	11	27.3	22.0	*	45.5	29.5	*	63.6	34.7	*
Hip Fracture	0									
Sepsis	1	0.0	8.1	*	0.0	11.5	*	0.0	14.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	5	0.0	1.1	*	0.0	2.0	*	0.0	2.7	*
Hysterectomy	1	0.0	0.2	*	0.0	0.3	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MUNSON MEDICAL CENTER

1105 Sixth Street
Traverse City, MI 49684

Medicare Provider Number: 230097

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,851	6.8	7.2	0.6	11.6	11.5	1.0	14.9	15.1	1.0
CONDITIONS:										
Acute Myocardial Infarction	72	26.4	20.2	7.5	29.2	23.4	7.3	31.9	26.7	7.6
Congestive Heart Failure	104	12.5	13.8	3.9	23.1	21.5	4.3	28.8	28.2	4.7
Pneumonia/Influenza	89	11.2	14.0	3.9	12.4	19.9	5.1	15.7	24.5	5.9
Chronic Obstructive Pulmonary Disease	33	12.1	5.0	*	18.2	9.3	*	18.2	13.3	*
Transient Cerebral Ischemia	30	0.0	1.7	*	0.0	3.9	*	0.0	6.3	*
Stroke	100	23.0	17.9	4.7	26.0	24.2	4.4	28.0	28.5	4.5
Hip Fracture	61	3.3	5.1	3.3	8.2	9.6	4.1	14.8	13.0	5.2
Sepsis	22	18.2	31.2	*	31.8	42.8	*	31.8	51.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	39	2.6	4.5	*	2.6	7.9	*	2.6	11.0	*
Carotid Endarterectomy	48	0.0	1.4	*	2.1	2.7	*	4.2	4.1	*
Hip Replacement/Reconstruction	73	0.0	2.1	2.7	1.4	4.0	3.8	4.1	5.6	3.5
Open Reduction of Hip Fracture	27	0.0	5.1	*	3.7	10.0	*	11.1	13.7	*
Prostatectomy	145	0.0	0.6	1.1	2.8	1.6	1.4	3.4	2.8	1.9
Cholecystectomy	63	1.6	2.2	1.9	3.2	4.0	2.6	3.2	5.4	3.5
Hysterectomy	27	0.0	0.2	*	0.0	0.5	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	328
Occupancy Rate	75
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	162
Percent of Physicians Board Certified Specialists	93
Medical Residents/Interns	0
Registered Nurses	343
Licensed Practical Nurses	107

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MUNSON MEDICAL CENTER

Medicare Provider Number: 230097

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,813	7.4	7.4	0.6	12.1	11.8	0.7	15.6	15.4	0.8
CONDITIONS:										
Acute Myocardial Infarction	70	21.4	25.3	7.5	27.1	28.3	6.8	30.0	31.6	5.8
Congestive Heart Failure	108	16.7	14.2	5.1	25.0	22.2	5.1	34.3	28.9	6.2
Pneumonia/Influenza	79	19.0	14.9	4.6	20.3	20.6	4.7	21.5	25.1	5.1
Chronic Obstructive Pulmonary Disease	23	13.0	6.3	*	17.4	10.9	*	21.7	15.0	*
Transient Cerebral Ischemia	46	6.5	2.1	*	8.7	4.7	*	19.6	7.5	*
Stroke	97	24.7	21.2	4.4	32.0	27.9	5.5	35.1	32.6	4.9
Hip Fracture	61	6.6	5.6	4.1	16.4	10.7	5.8	21.3	14.1	8.6
Sepsis	10	30.0	28.8	*	30.0	37.9	*	50.0	44.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	38	2.6	5.1	*	5.3	8.8	*	7.9	12.0	*
Carotid Endarterectomy	28	0.0	1.5	*	3.6	3.0	*	7.1	4.4	*
Hip Replacement/Reconstruction	84	1.2	2.1	1.8	2.4	4.3	2.6	6.0	6.0	2.8
Open Reduction of Hip Fracture	24	4.2	4.9	*	16.7	9.7	*	16.7	13.0	*
Prostatectomy	149	0.7	0.7	0.9	2.7	1.6	1.4	4.0	2.8	2.2
Cholecystectomy	55	1.8	1.7	1.9	3.6	2.9	2.6	3.6	3.8	3.1
Hysterectomy	35	0.0	0.5	*	0.0	1.0	*	0.0	1.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,664	7.3	7.4	0.8	11.2	11.8	0.9	14.9	15.3	1.0
CONDITIONS:										
Acute Myocardial Infarction	68	29.4	27.2	5.6	35.3	30.7	6.4	35.3	34.0	5.9
Congestive Heart Failure	91	13.2	14.9	4.8	22.0	23.5	4.8	28.6	30.7	6.3
Pneumonia/Influenza	79	13.9	14.3	4.4	21.5	20.0	5.4	26.6	24.8	5.3
Chronic Obstructive Pulmonary Disease	36	8.3	8.6	*	8.3	15.3	*	16.7	20.8	*
Transient Cerebral Ischemia	37	2.7	1.7	*	5.4	3.6	*	8.1	5.7	*
Stroke	98	23.5	18.0	5.3	24.5	25.0	4.9	30.6	29.6	4.7
Hip Fracture	58	5.2	5.1	4.8	10.3	9.7	4.1	12.1	12.9	4.5
Sepsis	17	35.3	28.1	*	35.3	37.0	*	47.1	44.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	33	3.0	3.0	*	3.0	6.0	*	6.1	8.9	*
Carotid Endarterectomy	31	3.2	1.4	*	3.2	2.6	*	3.2	3.8	*
Hip Replacement/Reconstruction	67	1.5	2.1	1.9	3.0	4.0	2.6	4.5	5.5	2.9
Open Reduction of Hip Fracture	27	3.7	4.4	*	11.1	8.8	*	11.1	12.0	*
Prostatectomy	161	0.6	0.7	0.7	1.9	1.7	1.0	1.9	2.9	1.7
Cholecystectomy	51	2.0	3.5	3.2	5.9	5.6	3.9	5.9	6.9	3.8
Hysterectomy	25	4.0	0.5	*	4.0	1.1	*	4.0	1.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

MUSKEGON GENERAL HOSPITAL

1700 Oak Avenue
Muskegon, MI 49442

Medicare Provider Number: 230159

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	646	10.5	7.8	1.5	13.6	11.7	1.5	16.9	14.9	1.6
CONDITIONS:										
Acute Myocardial Infarction	23	43.5	23.1	*	43.5	25.8	*	43.5	28.7	*
Congestive Heart Failure	55	12.7	13.2	5.7	16.4	20.5	7.2	25.5	26.7	6.5
Pneumonia/Influenza	37	13.5	10.7	*	18.9	14.8	*	27.0	18.1	*
Chronic Obstructive Pulmonary Disease	5	20.0	6.3	*	20.0	11.0	*	40.0	15.6	*
Transient Cerebral Ischemia	9	0.0	1.5	*	0.0	3.2	*	0.0	5.1	*
Stroke	43	32.6	19.6	*	37.2	26.0	*	37.2	30.3	*
Hip Fracture	20	25.0	5.5	*	25.0	10.0	*	25.0	13.2	*
Sepsis	5	0.0	20.6	*	0.0	26.7	*	0.0	32.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	8.6	*	0.0	15.9	*	0.0	21.4	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	11	0.0	1.6	*	0.0	3.2	*	0.0	4.5	*
Open Reduction of Hip Fracture	14	28.6	5.4	*	28.6	10.1	*	28.6	13.4	*
Prostatectomy	23	0.0	0.5	*	0.0	1.1	*	0.0	1.9	*
Cholecystectomy	10	0.0	1.4	*	0.0	2.3	*	10.0	2.9	*
Hysterectomy	4	0.0	0.2	*	0.0	0.3	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	113
Occupancy Rate	55
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	57
Percent of Physicians Board Certified Specialists	54
Medical Residents/Interns	8
Registered Nurses	85
Licensed Practical Nurses	47

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

MUSKEGON GENERAL HOSPITAL

Medicare Provider Number: 230159

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	626	12.3	8.2	1.7	16.1	12.4	2.0	19.6	15.8	1.9
CONDITIONS:										
Acute Myocardial Infarction	22	36.4	24.4	*	36.4	27.6	*	36.4	31.0	*
Congestive Heart Failure	52	32.7	15.2	9.4	38.5	23.0	9.9	44.2	29.6	10.3
Pneumonia/Influenza	27	22.2	14.5	*	33.3	19.4	*	40.7	23.4	*
Chronic Obstructive Pulmonary Disease	11	9.1	11.1	*	9.1	20.1	*	18.2	27.8	*
Transient Cerebral Ischemia	16	0.0	2.0	*	0.0	4.2	*	6.3	6.6	*
Stroke	21	14.3	24.1	*	14.3	29.9	*	23.8	34.2	*
Hip Fracture	15	6.7	4.6	*	13.3	8.6	*	20.0	11.2	*
Sepsis	5	80.0	33.6	*	80.0	39.9	*	80.0	45.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	13	0.0	2.5	*	0.0	5.0	*	7.7	6.8	*
Open Reduction of Hip Fracture	8	0.0	4.1	*	12.5	7.6	*	12.5	10.0	*
Prostatectomy	20	0.0	0.6	*	0.0	1.4	*	0.0	2.3	*
Cholecystectomy	5	0.0	2.6	*	0.0	4.4	*	0.0	5.4	*
Hysterectomy	5	0.0	0.3	*	0.0	0.4	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	567	8.8	7.6	1.2	15.0	11.8	1.9	19.4	15.1	2.1
CONDITIONS:										
Acute Myocardial Infarction	20	40.0	28.0	*	55.0	30.7	*	55.0	33.7	*
Congestive Heart Failure	43	18.6	15.1	*	25.6	22.4	*	34.9	28.5	*
Pneumonia/Influenza	19	10.5	12.7	*	21.1	17.6	*	26.3	21.5	*
Chronic Obstructive Pulmonary Disease	10	10.0	8.9	*	40.0	16.0	*	60.0	21.9	*
Transient Cerebral Ischemia	7	0.0	1.5	*	0.0	3.1	*	0.0	5.0	*
Stroke	14	7.1	16.6	*	7.1	22.8	*	21.4	26.9	*
Hip Fracture	15	26.7	6.0	*	33.3	11.5	*	46.7	15.4	*
Sepsis	4	25.0	27.5	*	25.0	33.9	*	25.0	40.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	4.3	*	0.0	8.8	*	0.0	13.0	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	17	5.9	1.9	*	5.9	3.7	*	11.8	5.0	*
Open Reduction of Hip Fracture	9	11.1	3.8	*	22.2	7.5	*	33.3	10.1	*
Prostatectomy	16	0.0	0.8	*	0.0	1.9	*	6.3	3.2	*
Cholecystectomy	10	0.0	1.6	*	0.0	2.8	*	0.0	3.8	*
Hysterectomy	1	0.0	3.3	*	0.0	7.9	*	0.0	13.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

NEW CENTER HOSPITAL

801 Virginia Park
Detroit, MI 48202

Medicare Provider Number: 230012

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	77	6.5	7.8	4.0	13.0	12.2	3.8	13.0	15.6	5.0
CONDITIONS:										
Acute Myocardial Infarction	1	0.0	19.1	*	0.0	22.4	*	0.0	25.6	*
Congestive Heart Failure	6	0.0	9.8	*	0.0	15.8	*	0.0	21.0	*
Pneumonia/Influenza	4	50.0	25.4	*	50.0	35.6	*	50.0	42.3	*
Chronic Obstructive Pulmonary Disease	1	0.0	2.2	*	0.0	4.1	*	0.0	5.8	*
Transient Cerebral Ischemia	0									
Stroke	5	0.0	16.1	*	0.0	21.8	*	0.0	26.1	*
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1989

Total Beds	122
Ownership/Control	Private, Non-Profit
STAFFING:	
Medical Residents/Interns	2
Registered Nurses	30
Licensed Practical Nurses	1

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	No
Hospice	No
Intensive Care Unit	Yes
Organ Transplant	No
Rehabilitation	No
Shock Trauma	No

**** Not used in calculating hospital mortality rates.**

NEW CENTER HOSPITAL

Medicare Provider Number: 230012

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	159	15.7	12.8	3.2	23.9	20.3	3.9	30.2	25.8	4.7
CONDITIONS:										
Acute Myocardial Infarction	2	50.0	33.8	*	50.0	37.8	*	50.0	43.0	*
Congestive Heart Failure	11	18.2	18.8	*	27.3	27.6	*	27.3	34.6	*
Pneumonia/Influenza	14	28.6	27.3	*	50.0	36.3	*	57.1	42.6	*
Chronic Obstructive Pulmonary Disease	2	0.0	5.5	*	0.0	9.1	*	0.0	12.4	*
Transient Cerebral Ischemia	3	0.0	2.3	*	0.0	5.2	*	0.0	8.1	*
Stroke	8	25.0	21.3	*	37.5	29.8	*	37.5	34.7	*
Hip Fracture	1	0.0	7.6	*	0.0	15.2	*	100.0	20.6	*
Sepsis	0									
PROCEDURE:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	1	0.0	6.4	*	0.0	12.3	*	0.0	15.1	*
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	163	12.3	13.4	2.7	27.0	21.4	5.5	31.3	27.0	4.5
CONDITIONS:										
Acute Myocardial Infarction	2	50.0	43.5	*	50.0	47.8	*	50.0	52.5	*
Congestive Heart Failure	6	33.3	22.4	*	33.3	33.7	*	50.0	42.3	*
Pneumonia/Influenza	9	22.2	22.9	*	55.6	30.4	*	55.6	36.6	*
Chronic Obstructive Pulmonary Disease	7	14.3	11.5	*	14.3	19.4	*	14.3	25.6	*
Transient Cerebral Ischemia	1	0.0	1.3	*	0.0	2.8	*	0.0	4.3	*
Stroke	21	19.0	26.7	*	38.1	37.4	*	42.9	43.4	*
Hip Fracture	3	33.3	6.1	*	66.7	12.8	*	66.7	18.0	*
Sepsis	1	0.0	17.0	*	0.0	25.1	*	0.0	30.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	6.3	*	50.0	13.3	*	50.0	18.9	*
Open Reduction of Hip Fracture	0									
Prostatectomy	2	0.0	2.9	*	0.0	7.2	*	0.0	11.5	*
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

NORTH DETROIT GENERAL HOSPITAL

3105 Carpenter
Detroit, MI 48212

Medicare Provider Number: 230173

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	942	12.5	12.7	1.1	18.5	18.6	1.3	22.5	23.1	1.5
CONDITIONS:										
Acute Myocardial Infarction	31	29.0	29.2	*	35.5	32.9	*	41.9	36.5	*
Congestive Heart Failure	53	13.2	13.8	5.1	18.9	21.3	7.8	24.5	27.7	8.1
Pneumonia/Influenza	58	20.7	20.4	5.4	34.5	27.8	7.4	39.7	33.3	8.4
Chronic Obstructive Pulmonary Disease	16	12.5	12.3	*	12.5	18.1	*	18.8	23.2	*
Transient Cerebral Ischemia	10	10.0	2.6	*	10.0	5.9	*	10.0	9.4	*
Stroke	55	23.6	22.2	5.7	29.1	29.4	6.2	30.9	33.8	7.6
Hip Fracture	27	3.7	7.1	*	11.1	12.7	*	14.8	16.6	*
Sepsis	17	17.6	25.8	*	23.5	35.1	*	35.3	41.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	5	0.0	4.4	*	0.0	8.4	*	0.0	12.0	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	12	0.0	5.2	*	0.0	10.0	*	8.3	13.6	*
Open Reduction of Hip Fracture	15	6.7	6.4	*	20.0	11.9	*	20.0	15.7	*
Prostatectomy	20	0.0	1.6	*	0.0	3.6	*	5.0	5.7	*
Cholecystectomy	12	16.7	2.6	*	25.0	4.9	*	25.0	6.6	*
Hysterectomy	2	50.0	1.9	*	50.0	4.3	*	50.0	6.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	288
Occupancy Rate	39
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	131
Percent of Physicians Board Certified Specialists	54
Medical Residents/Interns	2
Registered Nurses	73
Licensed Practical Nurses	28

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

NORTH DETROIT GENERAL HOSPITAL

Medicare Provider Number: 230173

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,225	14.5	13.6	1.2	21.2	19.6	1.7	26.0	24.2	2.1
CONDITIONS:										
Acute Myocardial Infarction	43	48.8	28.3	*	48.8	31.7	*	55.8	35.3	*
Congestive Heart Failure	84	15.5	16.0	4.6	26.2	24.1	4.9	33.3	30.7	5.5
Pneumonia/Influenza	86	29.1	19.7	6.8	36.0	26.2	8.4	40.7	31.1	8.4
Chronic Obstructive Pulmonary Disease	17	5.9	10.0	*	11.8	15.9	*	11.8	21.0	*
Transient Cerebral Ischemia	26	3.8	2.1	*	3.8	4.5	*	7.7	7.1	*
Stroke	65	20.0	23.8	7.4	30.8	31.1	8.6	32.3	35.8	7.0
Hip Fracture	32	9.4	9.3	*	15.6	15.8	*	25.0	19.8	*
Sepsis	20	15.0	28.5	*	40.0	38.5	*	50.0	45.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	14.3	2.9	*	14.3	5.5	*	28.6	7.9	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	14	7.1	8.6	*	7.1	15.8	*	28.6	20.8	*
Open Reduction of Hip Fracture	18	11.1	9.0	*	22.2	16.1	*	22.2	20.5	*
Prostatectomy	16	0.0	1.2	*	12.5	2.7	*	12.5	4.2	*
Cholecystectomy	11	0.0	4.1	*	0.0	7.6	*	0.0	9.6	*
Hysterectomy	7	0.0	0.8	*	0.0	1.5	*	0.0	2.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,260	13.4	13.2	1.0	20.1	19.3	1.5	24.3	23.8	1.5
CONDITIONS:										
Acute Myocardial Infarction	56	35.7	31.5	7.6	39.3	35.5	9.7	44.6	39.0	9.9
Congestive Heart Failure	93	19.4	18.1	4.1	32.3	26.6	6.6	37.6	33.6	7.1
Pneumonia/Influenza	57	24.6	22.4	6.0	31.6	29.5	6.6	31.6	34.6	6.8
Chronic Obstructive Pulmonary Disease	29	10.3	13.1	*	10.3	20.9	*	10.3	26.4	*
Transient Cerebral Ischemia	10	0.0	2.1	*	0.0	4.4	*	0.0	6.9	*
Stroke	46	19.6	22.0	*	30.4	29.6	*	37.0	34.4	*
Hip Fracture	21	0.0	10.3	*	4.8	16.8	*	23.8	21.0	*
Sepsis	20	40.0	36.2	*	60.0	47.3	*	65.0	54.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	9	0.0	2.3	*	0.0	4.6	*	0.0	7.0	*
Carotid Endarterectomy	2	0.0	3.3	*	0.0	6.3	*	0.0	9.4	*
Hip Replacement/Reconstruction	12	8.3	9.3	*	8.3	15.9	*	16.7	20.1	*
Open Reduction of Hip Fracture	8	0.0	8.8	*	12.5	14.9	*	25.0	18.7	*
Prostatectomy	29	0.0	1.6	*	0.0	4.1	*	0.0	7.3	*
Cholecystectomy	15	0.0	3.9	*	13.3	7.1	*	20.0	9.4	*
Hysterectomy	7	0.0	1.2	*	0.0	2.3	*	14.3	3.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

NORTH OTTAWA COMMUNITY HOSPITAL

1309 Sheldon Rd
Grand Haven, MI 49417

Medicare Provider Number: 230174

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	786	9.3	8.9	1.0	13.5	13.2	1.2	17.4	16.7	1.6
CONDITIONS:										
Acute Myocardial Infarction	27	18.5	27.8	*	22.2	30.8	*	25.9	34.0	*
Congestive Heart Failure	53	9.4	15.9	9.1	22.6	24.2	7.7	30.2	31.0	6.4
Pneumonia/Influenza	42	19.0	18.5	*	26.2	25.3	*	35.7	30.3	*
Chronic Obstructive Pulmonary Disease	10	10.0	9.8	*	20.0	14.8	*	30.0	18.9	*
Transient Cerebral Ischemia	10	10.0	2.0	*	10.0	4.6	*	10.0	7.5	*
Stroke	34	26.5	19.3	*	35.3	27.1	*	38.2	31.9	*
Hip Fracture	33	9.1	6.3	*	12.1	11.8	*	12.1	15.6	*
Sepsis	11	18.2	15.9	*	27.3	21.1	*	27.3	26.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	4.5	*	0.0	8.2	*	0.0	11.6	*
Carotid Endarterectomy	3	0.0	1.4	*	0.0	2.8	*	0.0	4.1	*
Hip Replacement/Reconstruction	29	0.0	1.9	*	3.4	3.8	*	6.9	5.3	*
Open Reduction of Hip Fracture	18	16.7	5.7	*	16.7	11.2	*	16.7	15.0	*
Prostatectomy	52	0.0	0.6	2.3	1.9	1.6	3.0	3.8	2.9	3.7
Cholecystectomy	19	0.0	3.1	*	0.0	5.2	*	0.0	6.5	*
Hysterectomy	11	0.0	0.2	*	0.0	0.4	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	104
Occupancy Rate	37
Ownership/Control	District/Authority

STAFFING: (As of September 30, 1989)

Total Number of Physicians	60
Percent of Physicians Board Certified Specialists	75
Medical Residents/Interns	0
Registered Nurses	62
Licensed Practical Nurses	15

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

NORTH OTTAWA COMMUNITY HOSPITAL

Medicare Provider Number: 230174

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	777	10.4	8.7	1.5	14.3	13.1	1.7	18.3	16.6	2.1
CONDITIONS:										
Acute Myocardial Infarction	36	22.2	25.8	*	25.0	28.9	*	25.0	32.3	*
Congestive Heart Failure	37	21.6	15.6	*	40.5	23.5	*	45.9	30.1	*
Pneumonia/Influenza	32	12.5	15.3	*	15.6	21.0	*	15.6	25.2	*
Chronic Obstructive Pulmonary Disease	14	21.4	10.9	*	21.4	18.2	*	28.6	24.2	*
Transient Cerebral Ischemia	6	0.0	1.9	*	0.0	4.2	*	33.3	6.9	*
Stroke	26	19.2	20.1	*	23.1	27.0	*	26.9	31.6	*
Hip Fracture	32	15.6	8.2	*	18.8	15.3	*	18.8	19.7	*
Sepsis	10	40.0	27.5	*	50.0	35.2	*	50.0	41.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	2	0.0	1.0	*	0.0	1.9	*	0.0	2.7	*
Hip Replacement/Reconstruction	21	4.8	3.6	*	9.5	7.1	*	9.5	9.4	*
Open Reduction of Hip Fracture	13	30.8	10.1	*	30.8	19.5	*	30.8	25.5	*
Prostatectomy	57	0.0	0.8	1.8	0.0	2.1	4.1	5.3	3.4	3.3
Cholecystectomy	30	6.7	1.6	*	6.7	3.1	*	10.0	4.2	*
Hysterectomy	11	0.0	0.2	*	0.0	0.4	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	786	10.3	8.8	1.1	15.4	13.5	1.3	20.1	17.1	1.6
CONDITIONS:										
Acute Myocardial Infarction	23	21.7	32.6	*	26.1	36.4	*	34.8	40.1	*
Congestive Heart Failure	39	25.6	18.2	*	33.3	27.5	*	38.5	34.8	*
Pneumonia/Influenza	24	4.2	18.7	*	25.0	26.1	*	41.7	31.6	*
Chronic Obstructive Pulmonary Disease	8	25.0	9.8	*	37.5	16.8	*	37.5	22.2	*
Transient Cerebral Ischemia	13	7.7	2.4	*	7.7	5.3	*	15.4	8.3	*
Stroke	30	26.7	17.8	*	26.7	24.7	*	30.0	29.1	*
Hip Fracture	29	6.9	5.2	*	10.3	10.0	*	13.8	13.4	*
Sepsis	6	16.7	26.3	*	16.7	32.7	*	33.3	37.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	4	0.0	1.3	*	0.0	2.4	*	25.0	3.4	*
Hip Replacement/Reconstruction	24	4.2	3.0	*	4.2	5.9	*	8.3	8.0	*
Open Reduction of Hip Fracture	13	7.7	4.0	*	15.4	8.0	*	15.4	11.0	*
Prostatectomy	48	0.0	0.7	*	0.0	1.8	*	4.2	3.1	*
Cholecystectomy	16	12.5	1.8	*	12.5	3.2	*	12.5	4.2	*
Hysterectomy	8	0.0	0.2	*	0.0	0.3	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

NORTHERN MICHIGAN HOSPITALS

416 Connable Ave
Petoskey, MI 49770

Medicare Provider Number: 230105

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,332	7.8	9.1	0.7	11.7	14.2	0.9	15.7	18.3	1.0
CONDITIONS:										
Acute Myocardial Infarction	66	16.7	24.8	9.0	19.7	28.3	10.3	21.2	32.0	11.4
Congestive Heart Failure	105	15.2	15.3	3.9	19.0	23.5	5.3	21.9	30.3	6.6
Pneumonia/Influenza	65	21.5	15.8	7.9	29.2	22.2	6.9	32.3	26.8	6.7
Chronic Obstructive Pulmonary Disease	14	14.3	10.7	*	14.3	18.0	*	14.3	23.9	*
Transient Cerebral Ischemia	30	0.0	1.6	*	0.0	3.8	*	3.3	6.1	*
Stroke	72	15.3	19.4	5.8	22.2	25.9	7.7	23.6	30.2	10.2
Hip Fracture	41	4.9	6.4	*	14.6	11.4	*	17.1	14.7	*
Sepsis	20	25.0	27.1	*	35.0	36.3	*	40.0	42.6	*
PROCEDURES:										
Angioplasty	44	0.0	4.4	*	2.3	5.6	*	4.5	6.9	*
Coronary Artery Bypass Graft	78	5.1	5.2	2.5	7.7	7.7	3.4	11.5	9.2	4.7
Initial Pacemaker Insertion	24	0.0	3.6	*	0.0	7.2	*	0.0	10.7	*
Carotid Endarterectomy	51	0.0	1.7	2.6	2.0	3.4	3.2	3.9	5.1	4.0
Hip Replacement/Reconstruction	77	2.6	1.8	3.0	5.2	3.5	4.7	7.8	4.9	4.9
Open Reduction of Hip Fracture	16	0.0	5.2	*	6.3	9.8	*	6.3	13.0	*
Prostatectomy	77	2.6	1.8	2.4	3.9	4.1	3.5	9.1	6.6	3.1
Cholecystectomy	39	5.1	3.6	*	5.1	6.1	*	5.1	7.8	*
Hysterectomy	19	0.0	1.8	*	0.0	3.5	*	5.3	5.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	261
Occupancy Rate	64
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	98
Percent of Physicians Board Certified Specialists	87
Medical Residents/Interns	0
Registered Nurses	259
Licensed Practical Nurses	49

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

NORTHERN MICHIGAN HOSPITALS

Medicare Provider Number: 230105

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,427	7.9	9.6	0.9	12.6	15.2	1.0	15.4	19.5	0.9
CONDITIONS:										
Acute Myocardial Infarction	84	28.6	22.5	8.5	32.1	26.4	7.9	33.3	30.4	7.3
Congestive Heart Failure	95	8.4	16.1	5.7	21.1	24.3	6.7	26.3	31.2	5.2
Pneumonia/Influenza	40	15.0	16.7	*	22.5	23.4	*	27.5	28.3	*
Chronic Obstructive Pulmonary Disease	14	0.0	5.5	*	0.0	9.6	*	0.0	13.3	*
Transient Cerebral Ischemia	46	2.2	1.9	*	4.3	4.2	*	4.3	6.8	*
Stroke	79	15.2	20.1	5.5	19.0	26.9	6.7	20.3	31.5	7.7
Hip Fracture	47	8.5	7.9	*	19.1	14.3	*	21.3	18.2	*
Sepsis	23	21.7	26.2	*	26.1	34.8	*	26.1	41.2	*
PROCEDURES:										
Angioplasty	47	0.0	3.3	*	2.1	5.0	*	4.3	6.8	*
Coronary Artery Bypass Graft	56	3.6	7.1	4.7	8.9	10.5	5.0	12.5	12.4	4.4
Initial Pacemaker Insertion	24	4.2	4.3	*	8.3	8.3	*	8.3	11.7	*
Carotid Endarterectomy	23	0.0	1.6	*	0.0	3.1	*	0.0	4.6	*
Hip Replacement/Reconstruction	96	0.0	1.9	1.8	1.0	3.8	2.7	2.1	5.3	3.5
Open Reduction of Hip Fracture	16	6.3	6.1	*	18.8	11.0	*	18.8	14.0	*
Prostatectomy	95	2.1	1.9	1.5	7.4	3.9	2.9	9.5	6.1	3.2
Cholecystectomy	47	4.3	6.2	*	6.4	10.7	*	8.5	14.3	*
Hysterectomy	20	0.0	1.3	*	0.0	2.7	*	0.0	3.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,336	7.3	9.9	0.7	12.4	15.4	1.0	15.2	19.5	0.9
CONDITIONS:										
Acute Myocardial Infarction	76	19.7	27.0	6.9	27.6	30.9	5.7	28.9	34.7	6.9
Congestive Heart Failure	82	11.0	16.6	7.7	17.1	24.8	7.9	24.4	31.6	7.5
Pneumonia/Influenza	36	27.8	19.9	*	33.3	27.1	*	38.9	32.3	*
Chronic Obstructive Pulmonary Disease	26	15.4	11.4	*	19.2	18.2	*	23.1	23.5	*
Transient Cerebral Ischemia	44	2.3	1.9	*	6.8	3.9	*	11.4	5.9	*
Stroke	95	13.7	20.9	6.7	20.0	27.6	8.5	23.2	32.0	9.0
Hip Fracture	36	13.9	7.4	*	16.7	13.5	*	19.4	17.4	*
Sepsis	22	13.6	24.4	*	36.4	32.9	*	36.4	39.5	*
PROCEDURES:										
Angioplasty	56	1.8	4.5	3.7	1.8	6.1	4.9	5.4	7.7	4.8
Coronary Artery Bypass Graft	34	5.9	5.9	*	8.8	8.7	*	8.8	10.3	*
Initial Pacemaker Insertion	25	4.0	3.6	*	4.0	7.5	*	4.0	11.0	*
Carotid Endarterectomy	30	0.0	2.0	*	0.0	3.8	*	0.0	5.6	*
Hip Replacement/Reconstruction	53	7.5	2.6	3.7	7.5	5.1	3.8	9.4	6.9	4.0
Open Reduction of Hip Fracture	12	8.3	7.5	*	16.7	13.8	*	16.7	17.8	*
Prostatectomy	88	1.1	1.9	1.6	1.1	4.5	3.4	2.3	7.3	4.7
Cholecystectomy	57	3.5	4.4	3.5	7.0	8.2	4.7	8.8	10.9	5.2
Hysterectomy	21	0.0	1.2	*	4.8	2.5	*	4.8	3.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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#23-0105

NORTHERN
MICHIGAN
HOSPITALS
INCORPORATED
PETOSKEY, MICHIGAN 49770, (616) 348-4000

January 11, 1990

Health Care Financing Administration
Health Standards and Quality Bureau
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207
Attention: Mrs. Sandra Kappert

Dear Mrs. Kappert:

Northern Michigan Hospitals appreciates the opportunity to comment on our fiscal year 1989 Medicare hospital mortality rates.

The Northern Michigan Hospitals statistics indicate that our observed mortality rates were below or within one standard deviation of the predicted rate in all condition and procedure categories.

Northern Michigan Hospitals will use the mortality statistics as additional data to support our internal quality monitoring activities. In addition, the 90- and 180-day mortality statistics contribute to our future research of the relationships between, and the outcomes of, acute inpatient and community-based health care services.

Further, we believe it is essential that the community understands what the Medicare mortality statistics represent. Therefore, Northern Michigan Hospitals is committed to educate our community about the importance of interpreting these statistics within the context of an overall assessment and evaluation of the quality and efficiency of hospital and physician care.

Northern Michigan Hospitals is committed to providing high quality patient care. We believe that high quality and efficient health care are achieved through continual monitoring. Thank you again for the opportunity to review and comment on these Medicare mortality statistics.

Sincerely,

J. T. Wendling

Jeffrey T. Wendling
President

NORTHWEST GENERAL OSTEOPATHIC HOSPITAL

8741 W Chicago Blvd
Detroit, MI 48204

Medicare Provider Number: 230224

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	209	7.7	10.3	2.5	17.2	16.0	3.2	21.1	20.6	2.9
CONDITIONS:										
Acute Myocardial Infarction	2	0.0	43.3	*	0.0	48.1	*	0.0	53.3	*
Congestive Heart Failure	23	4.3	13.9	*	17.4	22.1	*	34.8	28.8	*
Pneumonia/Influenza	6	16.7	14.1	*	16.7	18.9	*	33.3	23.0	*
Chronic Obstructive Pulmonary Disease	2	0.0	16.1	*	0.0	21.7	*	0.0	26.6	*
Transient Cerebral Ischemia	9	0.0	2.6	*	0.0	5.7	*	11.1	9.1	*
Stroke	13	38.5	19.2	*	53.8	26.2	*	53.8	30.8	*
Hip Fracture	1	0.0	3.7	*	0.0	6.4	*	0.0	8.3	*
Sepsis	2	50.0	30.0	*	50.0	41.2	*	50.0	47.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	7.2	*	100.0	19.3	*	100.0	33.1	*
Open Reduction of Hip Fracture	1	0.0	3.2	*	0.0	5.9	*	0.0	7.8	*
Prostatectomy	9	0.0	3.3	*	11.1	8.0	*	11.1	13.1	*
Cholecystectomy	2	0.0	6.7	*	0.0	11.4	*	0.0	14.8	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	88
Occupancy Rate	67
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	25
Percent of Physicians Board Certified Specialists	40
Medical Residents/Interns	0
Registered Nurses	38
Licensed Practical Nurses	30

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

NORTHWEST GENERAL OSTEOPATHIC HOSPITAL

Medicare Provider Number: 230224

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	306	5.6	8.3	2.6	9.8	12.8	3.1	13.7	16.4	3.0
CONDITIONS:										
Acute Myocardial Infarction	6	33.3	24.7	*	33.3	28.0	*	33.3	31.4	*
Congestive Heart Failure	32	3.1	16.1	*	6.3	24.9	*	28.1	32.0	*
Pneumonia/Influenza	10	0.0	16.4	*	0.0	22.1	*	10.0	26.7	*
Chronic Obstructive Pulmonary Disease	6	0.0	10.6	*	0.0	15.5	*	0.0	20.0	*
Transient Cerebral Ischemia	12	0.0	1.8	*	0.0	3.7	*	0.0	5.8	*
Stroke	11	9.1	19.9	*	27.3	25.9	*	27.3	30.5	*
Hip Fracture	2	50.0	4.0	*	50.0	7.4	*	50.0	9.8	*
Sepsis	2	0.0	17.3	*	0.0	21.5	*	0.0	26.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	3.9	*	0.0	8.1	*	0.0	12.2	*
Carotid Endarterectomy	1	0.0	2.4	*	0.0	4.2	*	0.0	6.3	*
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	1	100.0	3.1	*	100.0	5.9	*	100.0	7.8	*
Prostatectomy	14	0.0	2.2	*	0.0	5.4	*	0.0	8.8	*
Cholecystectomy	4	25.0	3.4	*	25.0	5.1	*	25.0	6.1	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	337	6.8	10.8	2.2	10.4	15.9	2.4	13.9	19.9	2.7
CONDITIONS:										
Acute Myocardial Infarction	6	16.7	25.2	*	16.7	27.9	*	16.7	31.0	*
Congestive Heart Failure	29	3.4	16.1	*	13.8	23.6	*	13.8	30.0	*
Pneumonia/Influenza	18	5.6	19.0	*	11.1	25.5	*	22.2	30.2	*
Chronic Obstructive Pulmonary Disease	6	0.0	12.6	*	0.0	21.0	*	0.0	27.1	*
Transient Cerebral Ischemia	14	0.0	2.7	*	0.0	5.9	*	14.3	9.3	*
Stroke	9	0.0	17.4	*	0.0	24.4	*	11.1	29.0	*
Hip Fracture	1	0.0	4.1	*	0.0	7.7	*	0.0	10.2	*
Sepsis	5	20.0	27.2	*	40.0	43.2	*	40.0	52.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	5.2	*	0.0	8.5	*	0.0	11.2	*
Carotid Endarterectomy	1	0.0	1.3	*	0.0	2.8	*	0.0	4.4	*
Hip Replacement/Reconstruction	1	0.0	3.8	*	0.0	7.4	*	0.0	9.9	*
Open Reduction of Hip Fracture	0									
Prostatectomy	20	0.0	3.1	*	0.0	7.0	*	0.0	10.7	*
Cholecystectomy	6	0.0	3.3	*	0.0	6.1	*	0.0	8.2	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

OAKLAND GENERAL HOSPITAL

27351 Dequindre
Madison Heights, MI 48071

Medicare Provider Number: 230223

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,380	9.9	11.4	1.1	17.0	16.9	1.1	21.8	21.1	1.2
CONDITIONS:										
Acute Myocardial Infarction	56	30.4	28.3	6.5	35.7	31.1	7.9	42.9	34.0	9.9
Congestive Heart Failure	103	11.7	15.1	4.9	16.5	22.9	7.1	22.3	29.5	8.6
Pneumonia/Influenza	37	16.2	18.0	*	16.2	24.2	*	21.6	28.8	*
Chronic Obstructive Pulmonary Disease	12	16.7	8.5	*	16.7	13.2	*	16.7	17.5	*
Transient Cerebral Ischemia	29	3.4	1.8	*	10.3	3.9	*	13.8	6.3	*
Stroke	56	14.3	18.7	8.0	26.8	25.7	5.9	30.4	29.9	6.3
Hip Fracture	37	8.1	7.5	*	24.3	13.4	*	32.4	17.3	*
Sepsis	16	6.3	27.4	*	18.8	35.1	*	25.0	41.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	9.0	*	0.0	15.2	*	0.0	19.4	*
Carotid Endarterectomy	1	0.0	0.8	*	0.0	1.4	*	0.0	2.1	*
Hip Replacement/Reconstruction	21	4.8	3.1	*	9.5	5.7	*	14.3	7.7	*
Open Reduction of Hip Fracture	23	4.3	7.5	*	26.1	14.0	*	30.4	18.2	*
Prostatectomy	26	0.0	0.7	*	0.0	1.8	*	0.0	3.0	*
Cholecystectomy	30	3.3	1.7	*	6.7	3.0	*	6.7	4.0	*
Hysterectomy	6	0.0	1.6	*	16.7	3.8	*	16.7	6.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	166
Occupancy Rate	71
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	137
Percent of Physicians Board Certified Specialists	67
Medical Residents/Interns	48
Registered Nurses	215
Licensed Practical Nurses	21

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

OAKLAND GENERAL HOSPITAL

Medicare Provider Number: 230223

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,328	10.0	11.2	0.9	18.1	16.7	1.4	22.3	20.8	1.2
CONDITIONS:										
Acute Myocardial Infarction	55	25.5	26.3	6.5	32.7	28.9	7.1	32.7	31.8	7.0
Congestive Heart Failure	75	12.0	17.1	9.0	20.0	25.5	10.2	29.3	32.3	9.6
Pneumonia/Influenza	47	8.5	17.6	*	29.8	23.3	*	31.9	27.9	*
Chronic Obstructive Pulmonary Disease	55	7.3	10.8	6.5	10.9	17.4	9.6	16.4	22.9	10.9
Transient Cerebral Ischemia	28	0.0	1.9	*	7.1	4.1	*	10.7	6.5	*
Stroke	46	26.1	22.7	*	28.3	29.6	*	39.1	34.1	*
Hip Fracture	29	3.4	7.1	*	20.7	12.3	*	27.6	15.5	*
Sepsis	14	35.7	31.5	*	64.3	39.6	*	64.3	45.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	9	0.0	6.2	*	11.1	9.0	*	11.1	11.5	*
Carotid Endarterectomy	6	0.0	1.0	*	0.0	1.9	*	0.0	2.8	*
Hip Replacement/Reconstruction	15	0.0	2.8	*	0.0	5.3	*	0.0	6.9	*
Open Reduction of Hip Fracture	22	4.5	6.3	*	22.7	11.3	*	31.8	14.5	*
Prostatectomy	28	0.0	1.0	*	0.0	2.6	*	7.1	4.4	*
Cholecystectomy	26	3.8	3.3	*	7.7	6.5	*	19.2	9.0	*
Hysterectomy	16	0.0	0.7	*	12.5	1.5	*	12.5	2.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,228	10.1	10.9	0.9	17.3	16.4	1.3	22.6	20.5	1.3
CONDITIONS:										
Acute Myocardial Infarction	38	23.7	27.1	*	28.9	30.0	*	39.5	33.0	*
Congestive Heart Failure	81	11.1	17.0	4.8	29.6	25.4	5.9	37.0	32.3	5.6
Pneumonia/Influenza	52	17.3	18.3	5.8	28.8	24.3	6.4	30.8	29.3	7.4
Chronic Obstructive Pulmonary Disease	45	6.7	15.8	*	13.3	24.8	*	24.4	30.7	*
Transient Cerebral Ischemia	28	0.0	2.2	*	7.1	4.8	*	14.3	7.5	*
Stroke	51	11.8	18.6	6.4	13.7	25.8	9.2	25.5	30.0	7.2
Hip Fracture	23	13.0	8.8	*	26.1	14.8	*	30.4	18.4	*
Sepsis	16	25.0	31.8	*	25.0	41.5	*	31.3	47.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	8	12.5	5.0	*	12.5	9.3	*	25.0	12.4	*
Carotid Endarterectomy	7	0.0	1.3	*	0.0	2.1	*	0.0	3.0	*
Hip Replacement/Reconstruction	8	12.5	5.7	*	25.0	10.3	*	25.0	12.9	*
Open Reduction of Hip Fracture	19	15.8	7.7	*	26.3	13.7	*	31.6	17.3	*
Prostatectomy	27	0.0	1.3	*	3.7	3.2	*	3.7	5.3	*
Cholecystectomy	21	4.8	1.8	*	4.8	3.0	*	4.8	3.7	*
Hysterectomy	8	0.0	2.2	*	12.5	4.7	*	25.0	7.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

OAKLAWN HOSPITAL

200 N Madison
Marshall, MI 49068

Medicare Provider Number: 230217

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	432	10.9	10.7	1.9	16.2	15.2	2.3	19.2	19.0	2.4
CONDITIONS:										
Acute Myocardial Infarction	6	16.7	29.1	*	16.7	32.2	*	16.7	35.3	*
Congestive Heart Failure	19	26.3	14.8	*	36.8	22.4	*	36.8	29.2	*
Pneumonia/Influenza	27	7.4	16.0	*	14.8	21.8	*	14.8	26.5	*
Chronic Obstructive Pulmonary Disease	14	7.1	9.6	*	7.1	16.4	*	7.1	22.1	*
Transient Cerebral Ischemia	2	0.0	1.2	*	0.0	2.5	*	0.0	4.0	*
Stroke	16	12.5	21.9	*	25.0	27.9	*	43.8	32.4	*
Hip Fracture	10	30.0	11.2	*	40.0	19.3	*	40.0	24.4	*
Sepsis	7	57.1	33.2	*	57.1	39.2	*	57.1	45.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	5.4	*	0.0	9.2	*	0.0	12.5	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	7	14.3	2.2	*	14.3	4.5	*	14.3	6.4	*
Open Reduction of Hip Fracture	1	0.0	3.3	*	0.0	5.8	*	0.0	7.7	*
Prostatectomy	9	0.0	0.9	*	0.0	2.3	*	0.0	4.0	*
Cholecystectomy	13	7.7	2.0	*	7.7	3.5	*	7.7	4.7	*
Hysterectomy	4	0.0	0.2	*	0.0	0.3	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	77
Occupancy Rate	26
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	24
Percent of Physicians Board Certified Specialists	71
Medical Residents/Interns	0
Registered Nurses	58
Licensed Practical Nurses	17

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

OAKLAWN HOSPITAL

Medicare Provider Number: 230217

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	366	10.4	10.3	1.8	14.8	14.4	2.1	17.5	17.8	2.3
CONDITIONS:										
Acuté Myocardial Infarction	14	14.3	29.2	*	14.3	32.8	*	28.6	36.5	*
Congestive Heart Failure	13	15.4	19.6	*	38.5	28.3	*	46.2	35.5	*
Pneumonia/Influenza	28	17.9	13.9	*	21.4	18.9	*	21.4	23.2	*
Chronic Obstructive Pulmonary Disease	5	0.0	8.0	*	0.0	13.4	*	40.0	18.1	*
Transient Cerebral Ischemia	0									
Stroke	6	0.0	13.2	*	0.0	17.9	*	16.7	21.7	*
Hip Fracture	17	5.9	5.2	*	17.6	10.0	*	17.6	13.4	*
Sepsis	3	66.7	41.5	*	66.7	48.2	*	66.7	55.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	33.3	5.8	*	33.3	8.5	*	33.3	11.3	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	15	0.0	2.9	*	6.7	5.7	*	6.7	7.8	*
Open Reduction of Hip Fracture	7	14.3	5.0	*	28.6	10.2	*	28.6	14.0	*
Prostatectomy	12	0.0	1.2	*	0.0	3.0	*	0.0	4.9	*
Cholecystectomy	7	0.0	2.7	*	0.0	4.8	*	0.0	6.2	*
Hysterectomy	2	0.0	0.2	*	0.0	0.5	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	444	9.5	8.8	1.5	13.3	12.8	1.7	16.2	16.3	2.1
CONDITIONS:										
Acute Myocardial Infarction	14	35.7	24.0	*	35.7	26.4	*	35.7	29.5	*
Congestive Heart Failure	22	9.1	16.1	*	18.2	24.5	*	22.7	31.6	*
Pneumonia/Influenza	25	24.0	17.5	*	32.0	23.4	*	36.0	28.5	*
Chronic Obstructive Pulmonary Disease	8	25.0	8.5	*	25.0	13.7	*	50.0	18.0	*
Transient Cerebral Ischemia	5	0.0	1.2	*	0.0	2.5	*	0.0	3.8	*
Stroke	11	45.5	23.0	*	63.6	30.5	*	63.6	35.5	*
Hip Fracture	6	0.0	7.5	*	0.0	14.1	*	0.0	18.4	*
Sepsis	3	33.3	42.1	*	33.3	50.4	*	33.3	58.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	33.3	11.4	*	66.7	16.3	*	66.7	18.9	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	10	0.0	2.4	*	0.0	4.7	*	0.0	6.2	*
Open Reduction of Hip Fracture	1	0.0	6.9	*	0.0	14.3	*	0.0	19.5	*
Prostatectomy	13	0.0	0.6	*	0.0	1.4	*	0.0	2.3	*
Cholecystectomy	9	0.0	1.0	*	0.0	1.6	*	0.0	2.2	*
Hysterectomy	3	0.0	0.1	*	0.0	0.3	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

OAKWOOD DOWNRIVER MEDICAL CENTER

25750 West Outer Drive
Lincoln Park, MI 48146

Medicare Provider Number: 230007

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	267	5.2	8.5	2.1	8.6	12.7	2.5	10.9	16.0	2.9
CONDITIONS:										
Acute Myocardial Infarction	7	14.3	30.9	*	42.9	33.4	*	42.9	36.5	*
Congestive Heart Failure	22	13.6	17.9	*	13.6	27.4	*	27.3	34.9	*
Pneumonia/Influenza	13	7.7	12.8	*	7.7	17.5	*	7.7	21.6	*
Chronic Obstructive Pulmonary Disease	5	0.0	10.9	*	20.0	19.8	*	20.0	28.1	*
Transient Cerebral Ischemia	3	0.0	1.5	*	0.0	3.0	*	0.0	4.7	*
Stroke	8	12.5	23.0	*	25.0	29.9	*	25.0	34.4	*
Hip Fracture	8	0.0	7.3	*	0.0	12.1	*	12.5	15.1	*
Sepsis	3	0.0	28.3	*	0.0	38.2	*	0.0	44.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	5.9	*	0.0	10.3	*	0.0	13.0	*
Open Reduction of Hip Fracture	3	0.0	8.5	*	0.0	14.8	*	33.3	18.4	*
Prostatectomy	12	0.0	0.5	*	0.0	1.3	*	0.0	2.2	*
Cholecystectomy	5	0.0	2.8	*	0.0	4.6	*	0.0	5.5	*
Hysterectomy	2	0.0	0.4	*	0.0	0.7	*	0.0	0.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	68
Occupancy Rate	87
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	68
Percent of Physicians Board Certified Specialists	99
Medical Residents/Interns	3
Registered Nurses	29
Licensed Practical Nurses	15

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

OAKWOOD DOWNRIVER MEDICAL CENTER

Medicare Provider Number: 230007

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	304	8.2	8.6	2.1	13.2	12.6	2.4	15.1	15.8	2.4
CONDITIONS:										
Acute Myocardial Infarction	8	25.0	17.5	*	25.0	19.8	*	25.0	22.6	*
Congestive Heart Failure	19	21.1	13.7	*	31.6	20.5	*	31.6	26.6	*
Pneumonia/Influenza	10	20.0	18.0	*	30.0	24.8	*	30.0	30.0	*
Chronic Obstructive Pulmonary Disease	7	0.0	8.1	*	0.0	12.5	*	0.0	16.6	*
Transient Cerebral Ischemia	1	0.0	1.1	*	0.0	2.2	*	0.0	3.3	*
Stroke	8	12.5	18.8	*	12.5	23.8	*	12.5	27.7	*
Hip Fracture	2	50.0	9.4	*	50.0	18.2	*	50.0	24.7	*
Sepsis	3	0.0	19.4	*	0.0	26.3	*	0.0	31.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	100.0	13.1	*	100.0	27.0	*	100.0	37.4	*
Open Reduction of Hip Fracture	1	0.0	4.0	*	0.0	7.5	*	0.0	10.0	*
Prostatectomy	13	0.0	0.7	*	0.0	1.7	*	0.0	2.9	*
Cholecystectomy	4	0.0	3.7	*	25.0	8.0	*	25.0	12.0	*
Hysterectomy	5	0.0	0.2	*	0.0	0.3	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	308	8.8	8.4	1.6	12.3	12.3	2.0	16.2	15.4	2.6
CONDITIONS:										
Acute Myocardial Infarction	11	9.1	27.2	*	18.2	30.9	*	27.3	34.4	*
Congestive Heart Failure	15	26.7	13.9	*	33.3	21.3	*	33.3	27.6	*
Pneumonia/Influenza	8	25.0	16.8	*	25.0	22.7	*	37.5	27.3	*
Chronic Obstructive Pulmonary Disease	4	25.0	8.0	*	25.0	15.9	*	25.0	22.3	*
Transient Cerebral Ischemia	3	0.0	1.4	*	0.0	2.9	*	0.0	4.5	*
Stroke	15	26.7	16.7	*	40.0	22.7	*	46.7	26.9	*
Hip Fracture	7	0.0	6.7	*	0.0	11.9	*	0.0	15.2	*
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	7.7	*	0.0	14.8	*	0.0	19.3	*
Open Reduction of Hip Fracture	2	0.0	3.4	*	0.0	6.6	*	0.0	8.8	*
Prostatectomy	21	0.0	0.7	*	0.0	1.6	*	0.0	2.7	*
Cholecystectomy	7	0.0	1.7	*	0.0	3.1	*	0.0	4.0	*
Hysterectomy	6	0.0	0.6	*	0.0	1.1	*	0.0	1.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

OAKWOOD HOSPITAL

18101 Oakwood Blvd
Dearborn, MI 48124

Medicare Provider Number: 230020

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	5,231	10.8	10.2	0.5	16.6	15.6	0.6	20.5	19.7	0.6
CONDITIONS:										
Acute Myocardial Infarction	210	27.6	24.3	4.2	31.9	27.4	4.4	32.9	30.6	3.9
Congestive Heart Failure	303	17.8	16.5	2.7	25.4	25.2	2.5	33.0	32.3	2.8
Pneumonia/Influenza	187	21.9	20.1	3.5	30.5	27.1	4.0	36.9	32.4	5.8
Chronic Obstructive Pulmonary Disease	42	7.1	7.9	*	14.3	12.8	*	16.7	17.2	*
Transient Cerebral Ischemia	94	2.1	1.6	1.4	3.2	3.5	2.0	5.3	5.5	2.4
Stroke	207	19.8	21.2	3.4	28.5	28.7	3.1	32.9	33.2	3.5
Hip Fracture	117	6.0	7.5	3.0	10.3	12.9	4.5	12.0	16.3	5.9
Sepsis	76	21.1	26.5	7.1	34.2	36.0	6.6	39.5	41.9	6.7
PROCEDURES:										
Angioplasty	110	1.8	3.6	2.2	3.6	4.5	2.7	3.6	5.6	2.7
Coronary Artery Bypass Graft	77	2.6	6.3	4.1	3.9	8.7	4.6	5.2	10.1	4.7
Initial Pacemaker Insertion	56	1.8	4.1	3.1	5.4	7.9	4.8	5.4	11.4	6.6
Carotid Endarterectomy	40	0.0	1.6	*	0.0	3.1	*	0.0	4.7	*
Hip Replacement/Reconstruction	84	2.4	3.7	2.3	3.6	6.6	3.2	4.8	8.7	3.8
Open Reduction of Hip Fracture	57	8.8	7.1	3.7	14.0	12.7	4.5	15.8	16.3	5.0
Prostatectomy	133	2.3	0.8	1.0	3.8	1.9	1.8	6.8	3.1	2.5
Cholecystectomy	124	3.2	3.0	1.6	5.6	5.0	2.2	8.9	6.4	3.0
Hysterectomy	63	0.0	0.6	*	0.0	1.1	*	0.0	1.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	615
Occupancy Rate	79
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	353
Percent of Physicians Board Certified Specialists	77
Medical Residents/Interns	83
Registered Nurses	592
Licensed Practical Nurses	95

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	Yes
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

OAKWOOD HOSPITAL

Medicare Provider Number: 230020

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	5,060	11.9	10.5	0.6	17.8	15.8	0.8	21.5	19.9	0.7
CONDITIONS:										
Acute Myocardial Infarction	168	35.1	30.4	6.5	36.9	33.9	6.6	40.5	37.4	5.5
Congestive Heart Failure	292	18.2	17.9	2.6	30.5	27.0	3.9	35.3	34.3	3.0
Pneumonia/Influenza	208	24.0	19.6	3.6	33.2	26.0	4.9	38.9	31.0	5.4
Chronic Obstructive Pulmonary Disease	93	11.8	10.2	4.3	20.4	16.6	6.9	26.9	22.0	8.7
Transient Cerebral Ischemia	122	0.8	2.1	1.8	3.3	4.5	2.9	4.9	7.1	3.4
Stroke	219	25.1	20.8	3.9	33.8	28.0	4.1	35.6	32.7	3.5
Hip Fracture	102	7.8	8.4	3.2	14.7	14.4	4.2	20.6	18.0	5.1
Sepsis	60	28.3	26.6	6.7	35.0	34.6	8.0	45.0	40.3	10.0
PROCEDURES:										
Angioplasty	44	2.3	3.2	*	2.3	3.8	*	4.5	4.7	*
Coronary Artery Bypass Graft	1	0.0	36.1	*	0.0	41.7	*	0.0	49.0	*
Initial Pacemaker Insertion	41	2.4	2.9	*	12.2	5.4	*	14.6	8.0	*
Carotid Endarterectomy	34	2.9	1.3	*	2.9	2.3	*	2.9	3.3	*
Hip Replacement/Reconstruction	87	2.3	3.4	2.2	5.7	6.4	2.9	8.0	8.3	3.0
Open Reduction of Hip Fracture	50	4.0	7.0	*	12.0	12.7	*	14.0	16.3	*
Prostatectomy	148	1.4	1.0	0.9	1.4	2.4	1.6	4.1	3.9	1.6
Cholecystectomy	121	2.5	3.6	1.8	7.4	6.4	2.4	9.9	8.4	2.8
Hysterectomy	49	4.1	0.6	*	4.1	1.3	*	4.1	1.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	4,689	12.0	10.8	0.5	18.1	16.3	0.7	22.0	20.4	0.7
CONDITIONS:										
Acute Myocardial Infarction	155	38.7	29.1	5.8	42.6	32.2	5.4	43.9	35.4	5.1
Congestive Heart Failure	261	26.4	17.6	3.4	36.4	26.2	4.0	45.2	33.2	4.6
Pneumonia/Influenza	216	23.1	20.3	5.7	31.9	26.8	6.3	36.1	31.9	6.2
Chronic Obstructive Pulmonary Disease	86	22.1	16.1	6.0	31.4	25.2	6.9	38.4	31.4	9.1
Transient Cerebral Ischemia	107	0.9	2.1	1.8	2.8	4.3	3.0	4.7	6.7	4.0
Stroke	217	28.1	22.2	4.5	39.6	30.1	5.8	42.4	34.8	5.2
Hip Fracture	123	4.9	8.4	3.9	13.8	14.4	3.3	17.1	18.2	3.6
Sepsis	62	29.0	27.5	5.8	40.3	37.5	7.3	51.6	44.1	9.7
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	38	7.9	4.4	*	15.8	8.3	*	23.7	11.6	*
Carotid Endarterectomy	46	2.2	1.6	*	4.3	3.0	*	4.3	4.3	*
Hip Replacement/Reconstruction	87	3.4	3.6	2.2	5.7	6.3	2.7	8.0	8.1	2.9
Open Reduction of Hip Fracture	71	2.8	6.9	4.6	9.9	12.5	6.0	11.3	15.9	6.7
Prostatectomy	125	1.6	1.2	1.2	2.4	2.8	1.6	2.4	4.7	2.7
Cholecystectomy	96	2.1	3.7	2.3	7.3	6.4	3.6	7.3	8.3	3.9
Hysterectomy	51	0.0	1.2	*	0.0	2.2	*	0.0	3.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

OCEANA HOSPITAL

611 E Main St
Hart, MI 49420

Medicare Provider Number: 230051

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	101	16.8	10.5	4.2	18.8	15.0	4.1	19.8	18.8	4.0
CONDITIONS:										
Acute Myocardial Infarction	5	20.0	33.5	*	40.0	36.6	*	40.0	40.5	*
Congestive Heart Failure	9	11.1	14.4	*	11.1	21.5	*	11.1	28.1	*
Pneumonia/Influenza	11	27.3	15.9	*	36.4	21.7	*	36.4	26.5	*
Chronic Obstructive Pulmonary Disease	2	50.0	8.7	*	50.0	15.0	*	50.0	20.3	*
Transient Cerebral Ischemia	0									
Stroke	9	33.3	14.1	*	33.3	19.2	*	33.3	23.2	*
Hip Fracture	1	0.0	2.7	*	0.0	5.5	*	0.0	8.1	*
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	1	0.0	0.9	*	0.0	1.4	*	0.0	1.9	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	36
Occupancy Rate	8
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	9
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	0
Registered Nurses	11
Licensed Practical Nurses	11

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

OCEANA HOSPITAL

Medicare Provider Number: 230051

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	122	9.0	10.8	3.2	13.1	16.1	4.4	21.3	20.2	4.0
CONDITIONS:										
Acute Myocardial Infarction	4	25.0	28.7	*	25.0	32.4	*	50.0	37.2	*
Congestive Heart Failure	17	5.9	14.6	*	17.6	22.5	*	29.4	29.2	*
Pneumonia/Influenza	7	0.0	21.1	*	0.0	28.7	*	0.0	33.6	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	2	0.0	1.2	*	0.0	2.4	*	0.0	3.7	*
Stroke	9	22.2	16.2	*	33.3	22.1	*	44.4	26.2	*
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	2	0.0	0.8	*	0.0	1.5	*	0.0	2.2	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	139	10.1	9.9	2.6	12.9	14.0	3.3	18.0	17.5	4.0
CONDITIONS:										
Acute Myocardial Infarction	8	25.0	26.4	*	25.0	29.2	*	25.0	32.9	*
Congestive Heart Failure	7	14.3	15.9	*	28.6	23.8	*	28.6	30.3	*
Pneumonia/Influenza	11	18.2	20.4	*	27.3	26.3	*	36.4	30.5	*
Chronic Obstructive Pulmonary Disease	1	0.0	29.2	*	0.0	51.4	*	100.0	63.1	*
Transient Cerebral Ischemia	3	0.0	3.9	*	0.0	9.0	*	0.0	14.9	*
Stroke	14	28.6	19.0	*	28.6	25.1	*	50.0	29.5	*
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

ONTONAGON MEMORIAL HOSPITAL

601 7th St
Ontonagon, MI 49953

Medicare Provider Number: 230219

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	198	13.1	8.1	3.1	16.2	12.6	3.2	18.2	16.6	3.1
CONDITIONS:										
Acute Myocardial Infarction	6	16.7	24.0	*	16.7	26.8	*	16.7	30.0	*
Congestive Heart Failure	18	22.2	14.9	*	33.3	22.3	*	38.9	29.1	*
Pneumonia/Influenza	17	23.5	10.4	*	23.5	14.4	*	23.5	17.6	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	7	0.0	1.4	*	0.0	3.2	*	0.0	5.2	*
Stroke	13	46.2	22.4	*	61.5	29.5	*	61.5	34.6	*
Hip Fracture	3	33.3	7.8	*	33.3	14.0	*	33.3	18.5	*
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	3	33.3	6.9	*	33.3	12.9	*	33.3	17.3	*
Prostatectomy	4	0.0	0.5	*	25.0	1.1	*	25.0	1.9	*
Cholecystectomy	1	0.0	1.3	*	0.0	2.6	*	0.0	3.4	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	87
Occupancy Rate	63
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	10
Percent of Physicians Board Certified Specialists	10
Medical Residents/Interns	0
Registered Nurses	12
Licensed Practical Nurses	8

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

ONTONAGON MEMORIAL HOSPITAL

Medicare Provider Number: 230219

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	207	5.3	8.0	2.0	6.3	12.1	2.8	9.2	15.6	3.1
CONDITIONS:										
Acute Myocardial Infarction	3	0.0	44.6	*	0.0	48.4	*	0.0	52.2	*
Congestive Heart Failure	20	0.0	14.2	*	0.0	20.3	*	5.0	26.3	*
Pneumonia/Influenza	15	6.7	13.8	*	6.7	18.5	*	6.7	22.6	*
Chronic Obstructive Pulmonary Disease	2	0.0	9.1	*	0.0	15.6	*	0.0	21.5	*
Transient Cerebral Ischemia	3	0.0	1.7	*	0.0	3.8	*	0.0	6.1	*
Stroke	5	20.0	19.2	*	40.0	25.1	*	40.0	29.9	*
Hip Fracture	0									
Sepsis	1	0.0	11.7	*	0.0	16.9	*	0.0	21.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	1	0.0	0.3	*	0.0	0.7	*	0.0	1.3	*
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	259	6.9	7.6	1.8	10.4	11.5	2.1	12.7	14.9	2.5
CONDITIONS:										
Acute Myocardial Infarction	15	13.3	26.7	*	13.3	30.0	*	20.0	33.3	*
Congestive Heart Failure	25	8.0	13.5	*	12.0	20.4	*	16.0	26.5	*
Pneumonia/Influenza	16	12.5	11.2	*	18.8	15.2	*	25.0	18.7	*
Chronic Obstructive Pulmonary Disease	2	0.0	16.3	*	0.0	30.9	*	0.0	40.6	*
Transient Cerebral Ischemia	6	0.0	1.9	*	0.0	4.1	*	0.0	6.6	*
Stroke	9	44.4	21.6	*	55.6	28.3	*	55.6	33.3	*
Hip Fracture	5	0.0	7.8	*	0.0	12.5	*	0.0	15.6	*
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	3	0.0	8.3	*	0.0	13.4	*	0.0	16.6	*
Prostatectomy	3	0.0	0.9	*	0.0	2.0	*	0.0	3.3	*
Cholecystectomy	0									
Hysterectomy	1	0.0	0.9	*	0.0	1.5	*	0.0	2.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

ORCHARD HILLS HOSPITAL

1534 W State Street
Belding, MI 48809

Medicare Provider Number: 230181

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	69	21.7	10.8	5.4	26.1	15.6	5.8	26.1	19.7	6.7
CONDITIONS:										
Acute Myocardial Infarction	4	75.0	29.4	*	75.0	33.6	*	75.0	38.2	*
Congestive Heart Failure	5	0.0	10.6	*	20.0	16.1	*	20.0	21.5	*
Pneumonia/Influenza	13	30.8	13.0	*	30.8	18.3	*	30.8	22.7	*
Chronic Obstructive Pulmonary Disease	1	0.0	2.4	*	0.0	4.7	*	0.0	7.0	*
Transient Cerebral Ischemia	1	0.0	1.6	*	0.0	3.5	*	0.0	5.7	*
Stroke	2	50.0	27.7	*	50.0	33.1	*	50.0	37.7	*
Hip Fracture	0									
Sepsis	1	0.0	48.2	*	0.0	53.7	*	0.0	60.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	2	50.0	0.5	*	50.0	1.0	*	50.0	1.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1988

Total Beds	56
Ownership/Control	Private, Non-Profit
STAFFING:	
Medical Residents/Interns	0
Registered Nurses	17
Licensed Practical Nurses	15

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	No
Hospice	No
Intensive Care Unit	No
Organ Transplant	No
Rehabilitation	No
Shock Trauma	No

**** Not used in calculating hospital mortality rates.**

ORCHARD HILLS HOSPITAL

Medicare Provider Number: 230181

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	93	23.7	11.8	4.6	30.1	16.9	6.2	35.5	21.0	5.8
CONDITIONS:										
Acute Myocardial Infarction	3	33.3	33.3	*	33.3	38.3	*	33.3	42.6	*
Congestive Heart Failure	11	27.3	12.2	*	36.4	18.7	*	45.5	24.7	*
Pneumonia/Influenza	15	46.7	23.8	*	53.3	32.1	*	53.3	37.5	*
Chronic Obstructive Pulmonary Disease	2	0.0	3.2	*	0.0	7.0	*	0.0	10.5	*
Transient Cerebral Ischemia	0									
Stroke	3	66.7	18.2	*	66.7	25.0	*	66.7	29.8	*
Hip Fracture	2	0.0	3.5	*	0.0	6.8	*	50.0	9.3	*
Sepsis	1	0.0	21.7	*	0.0	25.4	*	0.0	30.3	*
PROCEDURE:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	3.3	*	0.0	6.6	*	50.0	9.1	*
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	2	0.0	0.6	*	0.0	1.1	*	0.0	1.5	*
Hysterectomy	1	0.0	0.2	*	0.0	0.4	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	88	15.9	12.4	6.7	23.9	17.9	7.4	26.1	22.0	7.0
CONDITIONS:										
Acute Myocardial Infarction	4	25.0	28.0	*	25.0	31.9	*	50.0	35.4	*
Congestive Heart Failure	14	14.3	12.9	*	28.6	18.8	*	28.6	24.4	*
Pneumonia/Influenza	6	33.3	16.0	*	33.3	22.4	*	33.3	27.8	*
Chronic Obstructive Pulmonary Disease	3	33.3	4.4	*	33.3	8.1	*	33.3	11.7	*
Transient Cerebral Ischemia	0									
Stroke	3	66.7	23.8	*	100.0	32.0	*	100.0	38.0	*
Hip Fracture	2	0.0	5.7	*	50.0	12.9	*	50.0	19.1	*
Sepsis	2	0.0	31.4	*	50.0	42.1	*	50.0	49.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	5.3	*	50.0	12.1	*	50.0	18.2	*
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	5	0.0	3.0	*	0.0	5.7	*	0.0	7.2	*
Hysterectomy	1	0.0	0.5	*	0.0	0.8	*	0.0	1.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

OTSEGO COUNTY MEMORIAL HOSPITAL

825 N Center St
Gaylord, MI 49735

Medicare Provider Number: 230133

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	499	8.4	9.5	2.0	13.0	13.6	2.4	16.6	16.8	2.1
CONDITIONS:										
Acute Myocardial Infarction	17	29.4	40.3	*	35.3	43.6	*	35.3	46.8	*
Congestive Heart Failure	31	16.1	14.8	*	25.8	22.5	*	35.5	28.6	*
Pneumonia/Influenza	23	8.7	18.0	*	17.4	24.6	*	30.4	29.3	*
Chronic Obstructive Pulmonary Disease	7	0.0	6.4	*	0.0	10.1	*	0.0	13.5	*
Transient Cerebral Ischemia	4	0.0	1.1	*	25.0	2.4	*	25.0	3.8	*
Stroke	20	15.0	16.4	*	15.0	21.6	*	20.0	25.7	*
Hip Fracture	12	8.3	6.3	*	8.3	11.6	*	8.3	15.3	*
Sepsis	5	60.0	37.4	*	60.0	42.8	*	60.0	48.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	25.0	2.5	*	25.0	4.5	*	25.0	6.1	*
Open Reduction of Hip Fracture	6	0.0	7.0	*	0.0	13.3	*	0.0	17.6	*
Prostatectomy	35	0.0	0.6	*	0.0	1.4	*	0.0	2.4	*
Cholecystectomy	9	0.0	1.9	*	0.0	3.1	*	0.0	4.0	*
Hysterectomy	6	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	111
Occupancy Rate	62
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	27
Percent of Physicians Board Certified Specialists	67
Medical Residents/Interns	0
Registered Nurses	29
Licensed Practical Nurses	10

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

OTSEGO COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 230133

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	467	8.6	9.1	1.6	13.7	13.2	2.7	15.8	16.5	2.0
CONDITIONS:										
Acute Myocardial Infarction	17	17.6	33.5	*	23.5	37.2	*	29.4	40.6	*
Congestive Heart Failure	23	8.7	13.8	*	13.0	20.8	*	13.0	26.9	*
Pneumonia/Influenza	26	11.5	15.3	*	15.4	20.4	*	19.2	24.7	*
Chronic Obstructive Pulmonary Disease	9	11.1	7.8	*	33.3	12.5	*	33.3	16.8	*
Transient Cerebral Ischemia	0									
Stroke	15	6.7	22.3	*	6.7	28.3	*	13.3	33.1	*
Hip Fracture	14	7.1	7.5	*	14.3	13.5	*	14.3	17.2	*
Sepsis	5	80.0	29.9	*	80.0	40.5	*	80.0	48.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	50.0	18.6	*	50.0	22.0	*	50.0	25.4	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	50.0	2.3	*	50.0	4.6	*	50.0	6.3	*
Open Reduction of Hip Fracture	12	0.0	6.9	*	8.3	12.9	*	8.3	16.8	*
Prostatectomy	31	0.0	0.7	*	0.0	1.7	*	0.0	3.0	*
Cholecystectomy	11	9.1	0.9	*	9.1	1.8	*	9.1	2.4	*
Hysterectomy	4	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	538	8.9	9.5	1.6	11.7	13.6	1.9	13.6	16.8	2.6
CONDITIONS:										
Acute Myocardial Infarction	27	18.5	30.4	*	18.5	33.3	*	22.2	36.7	*
Congestive Heart Failure	30	20.0	19.6	*	23.3	28.7	*	26.7	36.0	*
Pneumonia/Influenza	31	29.0	19.1	*	38.7	25.2	*	38.7	30.1	*
Chronic Obstructive Pulmonary Disease	13	7.7	9.6	*	15.4	15.6	*	15.4	20.0	*
Transient Cerebral Ischemia	5	0.0	1.2	*	0.0	2.5	*	20.0	3.9	*
Stroke	16	25.0	19.3	*	37.5	24.9	*	37.5	29.2	*
Hip Fracture	11	9.1	7.4	*	9.1	13.0	*	9.1	16.3	*
Sepsis	8	12.5	27.1	*	12.5	34.5	*	25.0	40.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	0.0	1.9	*	0.0	4.3	*	0.0	6.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	0.0	6.2	*	0.0	11.5	*	0.0	14.7	*
Open Reduction of Hip Fracture	7	14.3	6.0	*	14.3	11.0	*	14.3	14.0	*
Prostatectomy	32	0.0	0.5	*	0.0	1.1	*	3.1	1.8	*
Cholecystectomy	15	0.0	1.6	*	0.0	3.2	*	0.0	4.3	*
Hysterectomy	3	0.0	0.4	*	0.0	0.8	*	0.0	1.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

OUTER DRIVE HOSPITAL

26400 Outer Dr
Lincoln Park, MI 48146

Medicare Provider Number: 230140

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	892	10.7	10.1	1.4	15.7	14.7	1.8	19.5	18.5	1.6
CONDITIONS:										
Acute Myocardial Infarction	34	44.1	24.5	*	47.1	28.0	*	50.0	31.5	*
Congestive Heart Failure	98	15.3	14.1	3.8	20.4	22.0	4.5	28.6	28.5	4.6
Pneumonia/Influenza	19	0.0	13.5	*	5.3	18.1	*	5.3	22.1	*
Chronic Obstructive Pulmonary Disease	12	0.0	10.1	*	8.3	15.3	*	8.3	20.0	*
Transient Cerebral Ischemia	37	5.4	2.0	*	8.1	4.5	*	13.5	7.2	*
Stroke	43	18.6	18.5	*	30.2	25.3	*	34.9	29.6	*
Hip Fracture	25	4.0	6.4	*	12.0	11.6	*	20.0	15.1	*
Sepsis	23	17.4	30.2	*	26.1	37.7	*	39.1	43.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	0.0	19.4	*	33.3	34.8	*	33.3	43.7	*
Carotid Endarterectomy	2	0.0	1.1	*	0.0	1.9	*	0.0	2.8	*
Hip Replacement/Reconstruction	9	11.1	4.2	*	11.1	8.3	*	11.1	11.7	*
Open Reduction of Hip Fracture	15	0.0	6.9	*	13.3	13.1	*	20.0	17.4	*
Prostatectomy	28	0.0	0.9	*	0.0	2.2	*	0.0	3.8	*
Cholecystectomy	12	0.0	4.6	*	0.0	6.9	*	0.0	7.9	*
Hysterectomy	3	0.0	0.2	*	0.0	0.3	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	218
Occupancy Rate	43
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	90
Percent of Physicians Board Certified Specialists	48
Medical Residents/Interns	0
Registered Nurses	106
Licensed Practical Nurses	32

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

OUTER DRIVE HOSPITAL

Medicare Provider Number: 230140

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	928	11.7	10.8	1.2	16.6	15.8	1.3	19.8	19.7	1.3
CONDITIONS:										
Acute Myocardial Infarction	27	51.9	26.8	*	51.9	29.4	*	59.3	32.7	*
Congestive Heart Failure	88	8.0	14.5	6.5	18.2	21.7	5.9	23.9	28.0	5.8
Pneumonia/Influenza	29	17.2	17.0	*	20.7	23.1	*	20.7	27.8	*
Chronic Obstructive Pulmonary Disease	18	11.1	10.4	*	11.1	16.6	*	16.7	21.9	*
Transient Cerebral Ischemia	18	0.0	2.2	*	5.6	4.8	*	11.1	7.4	*
Stroke	67	20.9	19.8	5.7	26.9	26.7	6.3	34.3	31.4	6.7
Hip Fracture	8	12.5	6.7	*	25.0	12.1	*	25.0	15.5	*
Sepsis	21	33.3	32.1	*	38.1	39.4	*	42.9	45.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	2.3	*	0.0	5.3	*	0.0	8.4	*
Carotid Endarterectomy	1	0.0	1.3	*	0.0	2.4	*	0.0	3.5	*
Hip Replacement/Reconstruction	6	16.7	4.2	*	33.3	8.1	*	33.3	10.9	*
Open Reduction of Hip Fracture	4	0.0	6.4	*	0.0	12.0	*	0.0	15.6	*
Prostatectomy	21	0.0	1.2	*	0.0	3.0	*	0.0	5.0	*
Cholecystectomy	10	10.0	3.3	*	10.0	5.4	*	10.0	6.8	*
Hysterectomy	5	0.0	1.3	*	0.0	2.9	*	0.0	4.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	960	8.2	9.2	1.1	12.6	13.7	1.3	16.4	17.2	1.4
CONDITIONS:										
Acute Myocardial Infarction	22	40.9	30.2	*	40.9	33.6	*	45.5	37.0	*
Congestive Heart Failure	78	15.4	15.1	4.1	20.5	23.0	5.8	26.9	29.5	7.0
Pneumonia/Influenza	22	9.1	17.5	*	18.2	23.3	*	31.8	27.8	*
Chronic Obstructive Pulmonary Disease	28	10.7	13.4	*	21.4	21.2	*	28.6	26.9	*
Transient Cerebral Ischemia	19	5.3	2.0	*	5.3	4.4	*	5.3	7.0	*
Stroke	52	17.3	18.9	6.2	26.9	26.0	6.2	26.9	30.4	7.7
Hip Fracture	14	7.1	5.0	*	14.3	8.9	*	14.3	11.6	*
Sepsis	14	35.7	33.3	*	50.0	41.0	*	50.0	47.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	0.0	3.7	*	33.3	7.6	*	33.3	11.4	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	5.0	*	0.0	8.8	*	0.0	11.3	*
Open Reduction of Hip Fracture	6	16.7	4.3	*	33.3	8.0	*	33.3	10.5	*
Prostatectomy	31	3.2	1.2	*	3.2	2.8	*	3.2	4.7	*
Cholecystectomy	12	0.0	2.0	*	0.0	3.1	*	0.0	3.9	*
Hysterectomy	3	0.0	0.3	*	0.0	0.6	*	0.0	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

PAUL OLIVER MEMORIAL HOSPITAL

224 Park Ave
Frankfort, MI 49635

Medicare Provider Number: 230062

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	292	11.3	7.7	2.2	13.7	11.6	2.6	17.5	14.8	2.4
CONDITIONS:										
Acute Myocardial Infarction	13	38.5	25.9	*	46.2	29.3	*	53.8	33.0	*
Congestive Heart Failure	23	34.8	15.1	*	34.8	23.7	*	43.5	30.7	*
Pneumonia/Influenza	17	17.6	15.9	*	17.6	21.7	*	17.6	26.6	*
Chronic Obstructive Pulmonary Disease	6	0.0	3.5	*	0.0	7.0	*	16.7	10.4	*
Transient Cerebral Ischemia	11	0.0	1.7	*	0.0	4.2	*	0.0	6.9	*
Stroke	21	28.6	16.1	*	42.9	22.1	*	42.9	26.4	*
Hip Fracture	5	0.0	4.7	*	20.0	8.6	*	20.0	11.4	*
Sepsis	2	0.0	19.4	*	0.0	25.6	*	0.0	29.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	4.8	*	0.0	8.6	*	0.0	11.0	*
Open Reduction of Hip Fracture	4	0.0	4.0	*	25.0	7.8	*	25.0	10.6	*
Prostatectomy	1	0.0	0.8	*	0.0	1.8	*	0.0	2.9	*
Cholecystectomy	7	0.0	0.9	*	0.0	1.6	*	0.0	2.1	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	48
Occupancy Rate	58
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	14
Percent of Physicians Board Certified Specialists	57
Medical Residents/Interns	0
Registered Nurses	23
Licensed Practical Nurses	12

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

PAUL OLIVER MEMORIAL HOSPITAL

Medicare Provider Number: 230062

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	273	10.6	9.9	1.9	15.0	14.5	2.3	19.8	18.2	2.4
CONDITIONS:										
Acute Myocardial Infarction	11	27.3	28.1	*	27.3	32.3	*	36.4	36.3	*
Congestive Heart Failure	11	36.4	16.6	*	36.4	25.7	*	63.6	33.0	*
Pneumonia/Influenza	18	5.6	18.0	*	11.1	23.8	*	16.7	28.3	*
Chronic Obstructive Pulmonary Disease	9	0.0	6.5	*	11.1	11.6	*	11.1	16.1	*
Transient Cerebral Ischemia	5	0.0	1.1	*	0.0	2.6	*	0.0	4.5	*
Stroke	12	16.7	16.6	*	16.7	22.8	*	25.0	27.1	*
Hip Fracture	6	16.7	5.0	*	16.7	9.3	*	33.3	12.4	*
Sepsis	3	0.0	17.4	*	0.0	22.3	*	0.0	27.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	4.8	*	0.0	8.4	*	0.0	11.3	*
Open Reduction of Hip Fracture	5	20.0	4.3	*	20.0	8.5	*	40.0	11.6	*
Prostatectomy	0									
Cholecystectomy	5	0.0	1.1	*	0.0	2.1	*	0.0	2.9	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	294	8.2	8.1	1.6	13.3	12.3	2.0	18.0	15.7	2.8
CONDITIONS:										
Acute Myocardial Infarction	10	30.0	22.0	*	30.0	25.7	*	40.0	28.8	*
Congestive Heart Failure	10	0.0	15.7	*	10.0	24.6	*	40.0	31.9	*
Pneumonia/Influenza	21	4.8	14.7	*	9.5	20.1	*	19.0	24.6	*
Chronic Obstructive Pulmonary Disease	6	0.0	8.3	*	16.7	13.6	*	16.7	17.9	*
Transient Cerebral Ischemia	7	0.0	1.8	*	14.3	4.0	*	14.3	6.3	*
Stroke	16	25.0	17.7	*	31.3	24.2	*	37.5	28.6	*
Hip Fracture	4	0.0	8.8	*	0.0	16.2	*	0.0	20.6	*
Sepsis	2	0.0	16.5	*	0.0	20.9	*	0.0	25.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	4	0.0	7.5	*	0.0	14.7	*	0.0	19.3	*
Prostatectomy	0									
Cholecystectomy	5	0.0	2.8	*	0.0	5.1	*	0.0	6.4	*
Hysterectomy	1	0.0	0.8	*	0.0	1.3	*	0.0	1.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

PAWATING HOSPITAL

31 North St Joseph
Niles, MI 49120

Medicare Provider Number: 230137

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,102	10.8	8.7	1.4	14.6	13.0	1.7	17.7	16.5	1.6
CONDITIONS:										
Acute Myocardial Infarction	33	42.4	31.5	*	48.5	35.1	*	51.5	38.5	*
Congestive Heart Failure	67	20.9	14.6	8.2	28.4	22.1	8.8	32.8	28.7	7.0
Pneumonia/Influenza	77	20.8	16.7	8.4	28.6	22.4	10.2	32.5	27.0	8.9
Chronic Obstructive Pulmonary Disease	17	0.0	6.4	*	0.0	10.6	*	0.0	14.4	*
Transient Cerebral Ischemia	18	5.6	2.6	*	11.1	5.8	*	11.1	9.5	*
Stroke	41	24.4	16.5	*	34.1	23.3	*	39.0	27.6	*
Hip Fracture	23	8.7	5.9	*	8.7	11.0	*	13.0	14.6	*
Sepsis	17	29.4	22.7	*	35.3	28.5	*	35.3	33.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	10	20.0	5.1	*	20.0	8.5	*	20.0	11.3	*
Carotid Endarterectomy	2	0.0	1.0	*	0.0	1.8	*	0.0	2.7	*
Hip Replacement/Reconstruction	13	0.0	5.9	*	0.0	9.9	*	0.0	12.8	*
Open Reduction of Hip Fracture	12	16.7	5.5	*	16.7	10.2	*	16.7	13.6	*
Prostatectomy	39	0.0	1.3	*	2.6	3.0	*	2.6	5.0	*
Cholecystectomy	22	0.0	1.8	*	0.0	3.4	*	4.5	4.7	*
Hysterectomy	6	0.0	2.2	*	0.0	5.1	*	0.0	8.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	106
Occupancy Rate	49
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	37
Percent of Physicians Board Certified Specialists	62
Medical Residents/Interns	0
Registered Nurses	98
Licensed Practical Nurses	9

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

PAWATING HOSPITAL

Medicare Provider Number: 230137

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,103	11.2	9.9	1.1	16.2	14.6	1.3	20.1	18.3	1.4
CONDITIONS:										
Acute Myocardial Infarction	32	28.1	28.1	*	34.4	31.3	*	40.6	34.6	*
Congestive Heart Failure	77	13.0	17.0	7.6	22.1	24.9	6.1	28.6	31.8	7.2
Pneumonia/Influenza	74	14.9	17.8	5.4	20.3	23.8	5.4	28.4	28.5	5.3
Chronic Obstructive Pulmonary Disease	17	5.9	9.3	*	11.8	16.1	*	11.8	21.9	*
Transient Cerebral Ischemia	15	0.0	2.0	*	0.0	4.4	*	6.7	7.0	*
Stroke	53	32.1	23.6	11.5	43.4	31.1	11.4	45.3	35.9	11.4
Hip Fracture	28	3.6	6.3	*	7.1	11.8	*	14.3	15.4	*
Sepsis	14	28.6	32.1	*	42.9	39.6	*	42.9	45.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	10	0.0	2.8	*	10.0	5.7	*	10.0	8.5	*
Carotid Endarterectomy	1	0.0	2.4	*	100.0	4.8	*	100.0	7.3	*
Hip Replacement/Reconstruction	13	0.0	4.0	*	0.0	7.5	*	0.0	9.8	*
Open Reduction of Hip Fracture	13	7.7	6.8	*	15.4	13.3	*	23.1	17.9	*
Prostatectomy	49	2.0	1.0	*	2.0	2.6	*	4.1	4.3	*
Cholecystectomy	20	0.0	1.6	*	0.0	2.8	*	0.0	3.6	*
Hysterectomy	13	7.7	0.7	*	7.7	1.3	*	7.7	1.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,154	11.0	9.3	1.4	15.5	13.7	1.5	18.4	17.4	1.5
CONDITIONS:										
Acute Myocardial Infarction	29	31.0	31.9	*	31.0	35.7	*	31.0	39.1	*
Congestive Heart Failure	79	24.1	16.9	6.6	34.2	24.7	7.2	40.5	31.5	7.5
Pneumonia/Influenza	59	23.7	19.4	8.1	28.8	25.5	8.3	30.5	30.3	6.7
Chronic Obstructive Pulmonary Disease	27	14.8	8.7	*	29.6	16.0	*	33.3	22.3	*
Transient Cerebral Ischemia	31	3.2	2.1	*	6.5	4.8	*	6.5	7.8	*
Stroke	36	11.1	19.7	*	22.2	28.1	*	33.3	33.1	*
Hip Fracture	23	4.3	7.6	*	17.4	13.9	*	21.7	18.1	*
Sepsis	20	25.0	32.0	*	50.0	39.6	*	55.0	45.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	17	11.8	6.3	*	17.6	10.5	*	17.6	14.6	*
Carotid Endarterectomy	1	0.0	1.3	*	0.0	2.6	*	0.0	3.8	*
Hip Replacement/Reconstruction	17	5.9	3.4	*	23.5	6.5	*	23.5	8.6	*
Open Reduction of Hip Fracture	11	0.0	6.5	*	0.0	12.3	*	9.1	16.1	*
Prostatectomy	46	2.2	1.1	*	2.2	2.7	*	4.3	4.5	*
Cholecystectomy	5	0.0	1.3	*	0.0	2.3	*	0.0	3.0	*
Hysterectomy	5	0.0	0.7	*	20.0	1.5	*	20.0	2.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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Medicare Provider #23-0137

PAWATING
HOSPITAL

Response to HCFA 1989 Mortality Data
11 January 1991

Pawating Hospital has thoroughly reviewed the 1989 Medicare Hospital Mortality Rates. After careful analysis of the data, Pawating Hospital has determined that there are no significant variations in the Hospital's observed mortality rates as compared to the predicted rates.

In most instances, Pawating Hospital's observed mortality rate exceeds the predicted rate. However, it should be noted that of the sixteen categories (including "All Causes"), Pawating Hospital has only three categories that have a sufficient number of patients to permit a satisfactory estimation of the standard deviation. All of the remaining thirteen categories are definitely not statistically valid.

There are three categories in which a standard deviation could be computed. These categories are: 1) all causes; 2) congestive heart failure; and 3) pneumonia/influenza. In each of these categories, the standard deviation is such that the variation of the observed mortality rate from the predicted mortality rate is not significant. After review and study of the patient list, no trends or quality concerns were identified.

31 N. St. Joseph Avenue/Niles Michigan 49120/(616) 683-5510

PENNOCK HOSPITAL

1009 W Green St
Hastings, MI 49058

Medicare Provider Number: 230040

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	692	9.2	10.4	1.6	14.6	15.3	1.8	18.1	19.1	1.8
CONDITIONS:										
Acute Myocardial Infarction	26	19.2	29.6	*	26.9	33.5	*	26.9	36.9	*
Congestive Heart Failure	43	14.0	14.3	*	18.6	21.8	*	20.9	28.3	*
Pneumonia/Influenza	42	14.3	19.2	*	16.7	26.2	*	19.0	31.2	*
Chronic Obstructive Pulmonary Disease	8	0.0	6.7	*	12.5	11.9	*	12.5	17.2	*
Transient Cerebral Ischemia	8	0.0	1.9	*	12.5	4.6	*	12.5	7.6	*
Stroke	25	12.0	20.1	*	20.0	27.0	*	28.0	31.7	*
Hip Fracture	28	17.9	8.0	*	25.0	14.0	*	32.1	17.8	*
Sepsis	20	25.0	30.0	*	35.0	36.5	*	40.0	42.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	19	5.3	3.8	*	5.3	6.9	*	10.5	9.2	*
Open Reduction of Hip Fracture	14	28.6	8.5	*	35.7	15.6	*	42.9	19.8	*
Prostatectomy	28	0.0	2.2	*	7.1	4.0	*	7.1	6.2	*
Cholecystectomy	25	0.0	2.1	*	0.0	3.5	*	0.0	4.5	*
Hysterectomy	2	0.0	0.6	*	0.0	1.0	*	0.0	1.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	91
Occupancy Rate	42
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	37
Percent of Physicians Board Certified Specialists	73
Medical Residents/Interns	0
Registered Nurses	66
Licensed Practical Nurses	21

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

PENNOCK HOSPITAL

Medicare Provider Number: 230040

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	686	10.6	10.4	1.6	16.8	15.4	2.0	19.7	19.1	1.8
CONDITIONS:										
Acute Myocardial Infarction	23	34.8	25.6	*	39.1	28.9	*	43.5	32.3	*
Congestive Heart Failure	28	17.9	18.2	*	35.7	26.9	*	46.4	33.9	*
Pneumonia/Influenza	44	11.4	16.7	*	13.6	22.4	*	15.9	26.7	*
Chronic Obstructive Pulmonary Disease	11	9.1	8.0	*	9.1	13.4	*	9.1	18.3	*
Transient Cerebral Ischemia	7	14.3	3.6	*	28.6	8.2	*	28.6	12.9	*
Stroke	24	12.5	19.5	*	25.0	26.1	*	25.0	30.6	*
Hip Fracture	20	5.0	6.0	*	5.0	11.1	*	10.0	14.4	*
Sepsis	12	25.0	32.6	*	33.3	38.6	*	33.3	44.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	1.6	*	0.0	3.8	*	0.0	5.8	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	21	0.0	2.2	*	0.0	4.1	*	4.8	5.4	*
Open Reduction of Hip Fracture	12	0.0	5.4	*	0.0	10.5	*	0.0	14.0	*
Prostatectomy	26	0.0	0.6	*	3.8	1.5	*	11.5	2.5	*
Cholecystectomy	19	5.3	4.5	*	10.5	8.0	*	10.5	10.3	*
Hysterectomy	5	0.0	0.7	*	0.0	1.3	*	0.0	1.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	730	7.4	8.9	1.7	11.5	13.3	2.0	14.8	16.8	2.0
CONDITIONS:										
Acute Myocardial Infarction	21	14.3	27.6	*	19.0	31.6	*	23.8	35.4	*
Congestive Heart Failure	31	12.9	17.8	*	19.4	26.2	*	19.4	33.1	*
Pneumonia/Influenza	40	5.0	15.3	*	7.5	20.8	*	15.0	25.0	*
Chronic Obstructive Pulmonary Disease	6	16.7	10.3	*	16.7	17.4	*	33.3	23.3	*
Transient Cerebral Ischemia	1	0.0	1.2	*	0.0	2.8	*	0.0	4.5	*
Stroke	26	15.4	20.1	*	19.2	26.9	*	26.9	31.3	*
Hip Fracture	32	18.8	9.0	*	21.9	16.2	*	21.9	20.5	*
Sepsis	5	80.0	29.5	*	80.0	35.1	*	80.0	40.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	16	0.0	4.7	*	6.3	8.7	*	6.3	11.3	*
Open Reduction of Hip Fracture	20	30.0	8.5	*	30.0	16.1	*	30.0	20.9	*
Prostatectomy	35	0.0	0.9	*	0.0	2.2	*	0.0	3.8	*
Cholecystectomy	16	0.0	2.6	*	0.0	4.5	*	0.0	5.6	*
Hysterectomy	6	0.0	1.2	*	16.7	2.2	*	16.7	3.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

PIPP COMMUNITY HOSPITAL

411 Naomu St
Plainwell, MI 49080

Medicare Provider Number: 230134

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	235	9.4	9.1	2.2	14.9	13.8	2.5	18.7	17.4	3.3
CONDITIONS:										
Acute Myocardial Infarction	3	0.0	30.0	*	66.7	33.2	*	66.7	36.7	*
Congestive Heart Failure	21	19.0	13.8	*	19.0	21.9	*	28.6	28.3	*
Pneumonia/Influenza	31	3.2	16.3	*	12.9	22.0	*	16.1	26.3	*
Chronic Obstructive Pulmonary Disease	9	0.0	6.9	*	11.1	11.6	*	11.1	15.8	*
Transient Cerebral Ischemia	0									
Stroke	9	33.3	25.1	*	33.3	32.4	*	44.4	37.5	*
Hip Fracture	8	0.0	8.3	*	12.5	14.8	*	37.5	18.8	*
Sepsis	2	50.0	29.6	*	50.0	39.6	*	100.0	47.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	6	0.0	7.5	*	16.7	13.6	*	16.7	17.4	*
Open Reduction of Hip Fracture	1	0.0	9.5	*	0.0	18.3	*	100.0	24.4	*
Prostatectomy	16	0.0	0.3	*	0.0	0.7	*	0.0	1.2	*
Cholecystectomy	6	0.0	1.3	*	0.0	2.2	*	0.0	2.7	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	43
Occupancy Rate	26
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	8
Percent of Physicians Board Certified Specialists	75
Medical Residents/Interns	0
Registered Nurses	22
Licensed Practical Nurses	23

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

PIPP COMMUNITY HOSPITAL

Medicare Provider Number: 230134

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	257	10.1	8.9	2.5	15.6	13.3	2.7	20.6	17.0	3.0
CONDITIONS:										
Acute Myocardial Infarction	7	0.0	29.7	*	0.0	33.7	*	0.0	38.6	*
Congestive Heart Failure	17	17.6	11.3	*	23.5	18.0	*	35.3	23.9	*
Pneumonia/Influenza	31	9.7	15.5	*	12.9	21.1	*	25.8	25.6	*
Chronic Obstructive Pulmonary Disease	8	0.0	8.5	*	0.0	14.2	*	0.0	19.1	*
Transient Cerebral Ischemia	2	0.0	1.6	*	0.0	3.6	*	0.0	5.9	*
Stroke	6	16.7	17.6	*	16.7	22.9	*	16.7	27.3	*
Hip Fracture	6	16.7	6.8	*	16.7	13.4	*	33.3	18.3	*
Sepsis	3	33.3	33.8	*	66.7	40.1	*	66.7	46.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	5.7	*	0.0	12.5	*	50.0	18.7	*
Open Reduction of Hip Fracture	1	0.0	2.8	*	0.0	5.3	*	0.0	6.7	*
Prostatectomy	16	6.3	0.5	*	6.3	1.1	*	6.3	1.9	*
Cholecystectomy	2	0.0	0.5	*	0.0	0.9	*	0.0	1.4	*
Hysterectomy	4	0.0	0.3	*	0.0	0.6	*	0.0	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	264	11.4	9.7	2.7	16.7	14.2	3.2	18.9	17.8	3.4
CONDITIONS:										
Acute Myocardial Infarction	8	25.0	33.5	*	37.5	36.9	*	37.5	40.9	*
Congestive Heart Failure	17	35.3	16.3	*	47.1	25.3	*	47.1	32.3	*
Pneumonia/Influenza	26	11.5	17.6	*	23.1	23.5	*	30.8	28.4	*
Chronic Obstructive Pulmonary Disease	7	0.0	9.0	*	0.0	14.7	*	0.0	19.6	*
Transient Cerebral Ischemia	5	0.0	2.5	*	0.0	5.7	*	0.0	9.2	*
Stroke	5	20.0	19.7	*	20.0	25.8	*	20.0	30.4	*
Hip Fracture	11	18.2	5.7	*	27.3	10.4	*	27.3	13.6	*
Sepsis	2	0.0	27.6	*	0.0	38.5	*	50.0	44.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	0.0	5.1	*	0.0	10.2	*	0.0	13.7	*
Open Reduction of Hip Fracture	2	0.0	4.4	*	50.0	8.9	*	50.0	12.1	*
Prostatectomy	13	0.0	0.5	*	0.0	1.3	*	0.0	2.2	*
Cholecystectomy	6	0.0	1.1	*	0.0	2.0	*	0.0	2.8	*
Hysterectomy	4	0.0	1.4	*	0.0	3.0	*	0.0	4.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

PONTIAC GENERAL HOSPITAL

461 W Huron St
Pontiac, MI 48053

Medicare Provider Number: 230013

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,529	9.5	11.0	1.1	15.6	16.8	1.2	20.4	21.2	1.1
CONDITIONS:										
Acute Myocardial Infarction	45	26.7	29.2	*	31.1	33.2	*	37.8	36.8	*
Congestive Heart Failure	113	12.4	15.1	5.8	16.8	23.5	6.7	23.9	30.4	7.9
Pneumonia/Influenza	66	10.6	14.9	5.1	18.2	20.3	5.2	28.8	24.7	6.1
Chronic Obstructive Pulmonary Disease	27	7.4	14.9	*	18.5	22.6	*	22.2	28.9	*
Transient Cerebral Ischemia	41	2.4	2.0	*	2.4	4.4	*	7.3	7.0	*
Stroke	58	22.4	21.4	5.9	36.2	27.5	6.9	44.8	31.6	8.8
Hip Fracture	27	3.7	7.6	*	14.8	13.8	*	22.2	18.1	*
Sepsis	23	17.4	25.8	*	17.4	34.7	*	30.4	40.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	9	0.0	3.1	*	0.0	6.0	*	11.1	8.7	*
Carotid Endarterectomy	6	16.7	1.8	*	16.7	3.4	*	16.7	4.8	*
Hip Replacement/Reconstruction	16	12.5	4.4	*	12.5	8.7	*	25.0	12.2	*
Open Reduction of Hip Fracture	12	0.0	7.3	*	25.0	13.3	*	25.0	17.2	*
Prostatectomy	30	0.0	1.1	*	3.3	2.8	*	3.3	5.0	*
Cholecystectomy	21	4.8	3.8	*	19.0	6.7	*	19.0	8.5	*
Hysterectomy	16	0.0	0.6	*	0.0	1.2	*	0.0	1.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	294
Occupancy Rate	66
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	223
Percent of Physicians Board Certified Specialists	59
Medical Residents/Interns	37
Registered Nurses	219
Licensed Practical Nurses	69

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

PONTIAC GENERAL HOSPITAL

Medicare Provider Number: 230013

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,537	9.2	10.5	1.1	15.2	15.8	1.4	18.3	19.9	1.5
CONDITIONS:										
Acute Myocardial Infarction	44	22.7	29.4	*	27.3	32.6	*	27.3	35.8	*
Congestive Heart Failure	99	13.1	16.2	7.0	20.2	24.6	8.9	27.3	31.5	7.0
Pneumonia/Influenza	64	10.9	15.5	6.8	21.9	21.2	5.6	25.0	25.6	5.5
Chronic Obstructive Pulmonary Disease	35	14.3	12.1	*	17.1	19.1	*	22.9	24.9	*
Transient Cerebral Ischemia	45	2.2	2.0	*	4.4	4.3	*	4.4	6.8	*
Stroke	49	22.4	19.9	*	36.7	27.4	*	44.9	32.0	*
Hip Fracture	24	4.2	6.9	*	12.5	12.0	*	16.7	15.2	*
Sepsis	18	11.1	29.4	*	22.2	40.3	*	27.8	47.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	6	0.0	3.3	*	16.7	5.7	*	16.7	8.0	*
Carotid Endarterectomy	7	0.0	1.5	*	0.0	2.8	*	0.0	4.1	*
Hip Replacement/Reconstruction	19	0.0	4.7	*	5.3	8.2	*	5.3	10.3	*
Open Reduction of Hip Fracture	9	0.0	5.5	*	11.1	10.1	*	22.2	13.1	*
Prostatectomy	28	0.0	1.6	*	0.0	4.0	*	0.0	6.7	*
Cholecystectomy	38	0.0	2.0	*	0.0	3.7	*	2.6	4.8	*
Hysterectomy	21	0.0	0.3	*	0.0	0.7	*	0.0	1.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,451	10.0	10.1	0.8	17.6	15.6	1.6	21.2	19.9	1.2
CONDITIONS:										
Acute Myocardial Infarction	39	28.2	28.2	*	35.9	31.5	*	35.9	34.7	*
Congestive Heart Failure	92	15.2	17.3	4.4	28.3	26.1	4.9	34.8	33.3	5.2
Pneumonia/Influenza	73	13.7	15.5	4.9	16.4	21.0	7.1	21.9	25.5	7.3
Chronic Obstructive Pulmonary Disease	41	12.2	15.0	*	19.5	23.7	*	24.4	29.7	*
Transient Cerebral Ischemia	35	0.0	2.1	*	0.0	4.3	*	5.7	6.9	*
Stroke	55	25.5	20.1	7.4	36.4	27.1	11.5	41.8	31.4	12.1
Hip Fracture	26	15.4	7.6	*	23.1	13.3	*	23.1	16.9	*
Sepsis	22	31.8	26.1	*	54.5	35.5	*	63.6	41.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	14	0.0	2.8	*	0.0	5.5	*	0.0	8.0	*
Carotid Endarterectomy	5	0.0	2.5	*	0.0	4.9	*	0.0	7.1	*
Hip Replacement/Reconstruction	14	7.1	3.7	*	14.3	6.5	*	21.4	8.4	*
Open Reduction of Hip Fracture	14	14.3	7.3	*	21.4	13.8	*	21.4	18.2	*
Prostatectomy	45	4.4	1.4	*	8.9	3.5	*	8.9	6.0	*
Cholecystectomy	27	7.4	2.8	*	7.4	5.3	*	7.4	7.1	*
Hysterectomy	18	0.0	0.6	*	0.0	1.2	*	0.0	1.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

PONTIAC OSTEOPATHIC HOSPITAL

50 North Perry
Pontiac, MI 48058

Medicare Provider Number: 230207

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,139	10.4	9.9	1.1	16.0	14.8	1.6	20.1	18.6	2.2
CONDITIONS:										
Acute Myocardial Infarction	33	42.4	31.9	*	48.5	35.5	*	48.5	38.9	*
Congestive Heart Failure	89	11.2	16.0	5.4	19.1	24.6	6.6	29.2	31.5	5.5
Pneumonia/Influenza	41	9.8	15.7	*	17.1	21.0	*	22.0	25.4	*
Chronic Obstructive Pulmonary Disease	15	13.3	13.4	*	20.0	19.8	*	20.0	25.2	*
Transient Cerebral Ischemia	31	0.0	1.9	*	0.0	4.2	*	0.0	6.6	*
Stroke	37	13.5	17.1	*	21.6	23.6	*	24.3	27.7	*
Hip Fracture	19	21.1	8.9	*	31.6	15.5	*	36.8	19.9	*
Sepsis	17	29.4	32.4	*	29.4	40.2	*	41.2	46.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	0.0	2.8	*	0.0	6.2	*	0.0	10.0	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	13	7.7	2.7	*	15.4	4.7	*	15.4	6.1	*
Open Reduction of Hip Fracture	13	15.4	7.6	*	23.1	13.9	*	30.8	18.1	*
Prostatectomy	28	0.0	0.5	*	0.0	1.2	*	0.0	2.0	*
Cholecystectomy	21	9.5	3.4	*	14.3	5.9	*	14.3	7.9	*
Hysterectomy	4	25.0	0.2	*	25.0	0.3	*	25.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	247
Occupancy Rate	51
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	98
Percent of Physicians Board Certified Specialists	66
Medical Residents/Interns	58
Registered Nurses	182
Licensed Practical Nurses	65

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	Yes

**** Not used in calculating hospital mortality rates.**

PONTIAC OSTEOPATHIC HOSPITAL

Medicare Provider Number: 230207

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,123	10.9	10.0	0.9	17.5	15.0	1.4	21.5	18.9	1.5
CONDITIONS:										
Acute Myocardial Infarction	19	26.3	29.5	*	26.3	32.8	*	26.3	36.2	*
Congestive Heart Failure	65	18.5	16.0	5.8	30.8	24.8	9.9	41.5	32.1	11.2
Pneumonia/Influenza	38	5.3	17.3	*	7.9	23.2	*	13.2	28.0	*
Chronic Obstructive Pulmonary Disease	37	10.8	12.4	*	21.6	20.7	*	35.1	26.9	*
Transient Cerebral Ischemia	40	2.5	2.2	*	5.0	4.6	*	5.0	7.3	*
Stroke	30	23.3	20.1	*	33.3	26.5	*	40.0	30.9	*
Hip Fracture	23	17.4	6.3	*	26.1	11.5	*	30.4	14.7	*
Sepsis	20	30.0	36.1	*	40.0	44.3	*	40.0	50.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	25.0	4.9	*	50.0	8.6	*	50.0	12.2	*
Carotid Endarterectomy	1	0.0	1.6	*	0.0	3.1	*	0.0	4.6	*
Hip Replacement/Reconstruction	13	0.0	2.4	*	0.0	4.6	*	0.0	6.1	*
Open Reduction of Hip Fracture	15	20.0	6.4	*	33.3	12.1	*	40.0	15.8	*
Prostatectomy	22	0.0	0.8	*	0.0	2.0	*	4.5	3.4	*
Cholecystectomy	19	0.0	2.4	*	5.3	4.4	*	5.3	5.8	*
Hysterectomy	7	0.0	0.9	*	0.0	2.0	*	0.0	3.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,148	10.5	9.6	0.9	16.5	14.3	1.3	21.1	18.0	1.5
CONDITIONS:										
Acute Myocardial Infarction	27	44.4	28.2	*	44.4	31.0	*	44.4	34.0	*
Congestive Heart Failure	75	20.0	19.3	4.7	38.7	28.9	7.2	41.3	36.4	7.3
Pneumonia/Influenza	47	27.7	16.0	*	31.9	21.2	*	38.3	25.8	*
Chronic Obstructive Pulmonary Disease	29	17.2	12.0	*	20.7	18.3	*	20.7	22.7	*
Transient Cerebral Ischemia	43	2.3	2.2	*	4.7	4.8	*	7.0	7.7	*
Stroke	22	36.4	20.0	*	40.9	27.5	*	40.9	32.1	*
Hip Fracture	29	13.8	7.8	*	17.2	13.4	*	31.0	16.9	*
Sepsis	10	30.0	38.6	*	40.0	46.4	*	50.0	52.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	0.0	5.0	*	0.0	8.9	*	0.0	12.0	*
Carotid Endarterectomy	3	0.0	1.1	*	33.3	2.1	*	33.3	2.9	*
Hip Replacement/Reconstruction	17	11.8	4.1	*	17.6	7.4	*	23.5	9.5	*
Open Reduction of Hip Fracture	18	11.1	7.0	*	11.1	12.8	*	27.8	16.5	*
Prostatectomy	25	0.0	0.7	*	0.0	1.6	*	0.0	2.6	*
Cholecystectomy	18	5.6	5.4	*	16.7	10.4	*	27.8	14.5	*
Hysterectomy	2	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

501.1

Pontiac Osteopathic Hospital
50 N. PERRY ST. PONTIAC, MI 48342
313-338-5000

Hospital ID: 230207

January 11, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
Attn: Mrs. Sandra K. Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

RE: 1989 HCFA MORTALITY RATES

Dear Mrs. Kappert,

In response to the Health Care Financing Administration Mortality Rates, Pontiac Osteopathic Hospital issues the following statements:

1. The data prepared by the Health Care Administration for our facility was found to contain numerous errors and inconsistencies when analyzed in depth by our staff.

2. A correlation between the quality of care rendered and mortality can not be made especially for those patients who expired within the 30, 90 or 180 days post-admission. The data released does not represent "true" mortality statistics.

3. Medicare patients who expire generally have several co-existing disease entities which contribute to their death, it is not a reflection on the quality of care rendered. The data does not reflect severity of illness indicators such as those developed by Susan Horn, PhD of John Hopkins.

4. The data does not comprehend those patients who were admitted and a "no resuscitation" status was requested per the patient or family due to the patient's condition.

5. Pontiac Osteopathic Hospital is a certified "Emergency Trauma Center." We also receive a high number of nursing home patients who when transferred to our facility are in a deteriorating/terminal state.

6. We strongly feel the quality of care rendered to our patients at Pontiac Osteopathic Hospital and others in the health care industry far exceeds any governmental mandated standards.

Thank you for the opportunity to comment on the 1989 HCFA Mortality Rates.

Sincerely,

Douglas B Hurd DO

Douglas B. Hurd, D.O., F.A.C.O.S.
Medical Director

Belinda Wiegand RRA

Belinda Wiegand, RRA
Director, Clinical Information Services

cc: J. Whitlow, Executive Director
L. Abramson, DO, Quality Assessment Director
P. Lamberti, Executive Assistant Administrator
R. Haener, Director of Finance
D. Drouillard, Assistant Administrator, Information Services
B. Jackson, Hospital Planner
file

PORT HURON HOSPITAL

1001 Kearney Street
Port Huron, MI 48060

Medicare Provider Number: 230216

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,809	10.0	8.5	1.1	13.9	12.7	1.1	16.6	16.0	1.1
CONDITIONS:										
Acute Myocardial Infarction	71	31.0	21.8	7.4	33.8	25.2	7.3	35.2	28.6	7.3
Congestive Heart Failure	92	17.4	13.5	4.3	25.0	20.8	5.0	32.6	27.3	5.8
Pneumonia/Influenza	77	13.0	15.6	5.2	19.5	21.1	6.0	23.4	25.4	5.9
Chronic Obstructive Pulmonary Disease	18	27.8	9.5	*	33.3	14.8	*	33.3	19.6	*
Transient Cerebral Ischemia	45	2.2	1.8	*	4.4	4.0	*	4.4	6.4	*
Stroke	75	20.0	18.6	5.6	32.0	25.9	8.1	34.7	30.3	8.7
Hip Fracture	37	5.4	5.6	*	8.1	10.1	*	13.5	13.1	*
Sepsis	15	26.7	37.6	*	40.0	46.3	*	40.0	53.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	22	9.1	4.5	*	9.1	7.7	*	18.2	10.3	*
Carotid Endarterectomy	41	2.4	1.4	*	4.9	2.5	*	4.9	3.7	*
Hip Replacement/Reconstruction	81	1.2	1.6	1.6	2.5	2.9	1.9	3.7	4.0	2.2
Open Reduction of Hip Fracture	18	5.6	5.5	*	5.6	10.2	*	11.1	13.4	*
Prostatectomy	30	0.0	0.9	*	0.0	2.3	*	0.0	3.8	*
Cholecystectomy	30	0.0	3.1	*	0.0	5.7	*	6.7	7.5	*
Hysterectomy	26	0.0	0.6	*	0.0	1.4	*	0.0	2.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	264
Occupancy Rate	64
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	113
Percent of Physicians Board Certified Specialists	73
Medical Residents/Interns	0
Registered Nurses	249
Licensed Practical Nurses	65

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

PORT HURON HOSPITAL
Medicare Provider Number: 230216

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,911	8.1	7.7	0.7	12.8	11.6	1.0	16.3	14.6	1.2
CONDITIONS:										
Acute Myocardial Infarction	50	38.0	25.9	*	44.0	29.1	*	48.0	32.6	*
Congestive Heart Failure	81	24.7	15.0	6.6	35.8	22.8	8.0	42.0	29.2	8.2
Pneumonia/Influenza	56	8.9	14.8	7.4	17.9	19.7	5.6	21.4	23.8	6.1
Chronic Obstructive Pulmonary Disease	20	15.0	10.2	*	20.0	15.8	*	35.0	20.7	*
Transient Cerebral Ischemia	55	1.8	1.8	*	3.6	3.7	*	3.6	5.8	*
Stroke	75	20.0	19.5	4.6	28.0	26.6	5.3	34.7	31.2	7.2
Hip Fracture	57	7.0	7.3	3.6	14.0	12.9	5.5	19.3	16.3	6.4
Sepsis	22	4.5	24.3	*	22.7	30.4	*	31.8	35.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	12	8.3	3.7	*	16.7	6.5	*	16.7	9.1	*
Carotid Endarterectomy	64	0.0	1.7	2.5	0.0	3.3	3.9	1.6	4.9	4.4
Hip Replacement/Reconstruction	96	2.1	2.1	2.0	6.3	3.9	3.4	8.3	5.1	4.8
Open Reduction of Hip Fracture	29	10.3	6.2	*	10.3	11.4	*	13.8	14.7	*
Prostatectomy	46	2.2	1.3	*	4.3	2.7	*	4.3	4.1	*
Cholecystectomy	36	5.6	2.4	*	5.6	4.5	*	5.6	6.0	*
Hysterectomy	20	0.0	0.6	*	5.0	1.2	*	5.0	1.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,808	7.2	7.6	0.8	11.8	11.6	0.8	14.9	14.8	1.3
CONDITIONS:										
Acute Myocardial Infarction	68	27.9	24.9	7.0	32.4	27.8	8.4	36.8	31.0	10.4
Congestive Heart Failure	93	18.3	14.9	4.0	30.1	22.5	5.0	43.0	29.0	6.5
Pneumonia/Influenza	56	12.5	17.0	7.2	19.6	22.9	8.6	23.2	27.7	7.3
Chronic Obstructive Pulmonary Disease	17	5.9	10.2	*	5.9	16.2	*	17.6	20.9	*
Transient Cerebral Ischemia	69	1.4	1.9	1.7	5.8	3.9	3.5	5.8	6.1	3.9
Stroke	75	18.7	18.7	4.5	26.7	26.1	5.7	28.0	30.5	7.5
Hip Fracture	48	4.2	7.1	*	12.5	13.0	*	16.7	16.9	*
Sepsis	3	0.0	29.2	*	0.0	34.8	*	0.0	40.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	8	12.5	1.7	*	12.5	3.6	*	12.5	5.7	*
Carotid Endarterectomy	52	0.0	1.5	2.2	1.9	2.8	2.4	3.8	4.1	2.8
Hip Replacement/Reconstruction	105	1.0	2.1	1.8	2.9	3.8	2.2	4.8	5.1	2.2
Open Reduction of Hip Fracture	20	5.0	6.9	*	10.0	13.1	*	10.0	17.2	*
Prostatectomy	37	0.0	1.4	*	5.4	3.4	*	5.4	5.6	*
Cholecystectomy	36	2.8	3.0	*	2.8	5.4	*	5.6	6.9	*
Hysterectomy	24	4.2	0.6	*	8.3	1.3	*	8.3	2.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

Medicare Provider Number: 230216

PORT HURON HOSPITAL

Shaping the dream of a healthier future

January 14, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Mrs. Kappert:

Port Huron Hospital is a 264 bed acute care, community hospital serving St. Clair and Sanilac counties in the thumb area of Michigan. Services include medical-surgical, orthopedic, emergency, perinatal/family, mental health, chemical dependence, inpatient and outpatient surgery, pediatrics and intensive care/selective care. Although we do not have a dedicated coronary care unit, we are equipped to treat both acute and chronic heart disease, as the mortality data reveals.

In reviewing the Health Care Financing Administration data for Port Huron Hospital for 1989, we note that in 10 of the 17 categories listed we had fewer than 50 patients in the population. This makes the data in those 10 categories statistically uninterpretable. In two procedure categories 0 population was reflected because angioplasty and coronary artery bypass graft procedures are not services which we provide. In one case the patient was never a patient at Port Huron Hospital.

In the remaining five categories our observed mortality rates were close to the HCFA predicted rates. Using a 95 percent confidence level the observed mortality is consistently within the predicted range.

VHA. Affiliate of Voluntary Hospitals of America, Inc.

DONALD C. FLETCHER, PRESIDENT 1001 KEARNEY STREET P.O. BOX 5011 PORT HURON, MICHIGAN 48061-5011 · (313) 987-5000

Medicare Provider Number: 230216

The average patient age in the population was 77.3 years old with 161 (9%) of the patients being under 65 years old. Several patients (61) were less than 50 years old.

Mortality data is routinely evaluated by the Medical Staff as part of our efforts to continuously improve services. This specific information will be referred to the appropriate Medical Staff sections for their input.

HCFA data will be analyzed to determine areas for both internal hospital improvement and community wide improvement of services provided post-discharge. 129 of the 372 deaths identified by the data died 90 days or more after admission. In 16 cases the patient died more than 182 days after admission. Difficulties may, therefore, be encountered in the analysis since a large number of the deaths occurred outside of Port Huron Hospital (186 or 50%).

Sincerely,

Robert J. Bednarek

Robert J. Bednarek, COO
Vice President, Operations

RJB/mkp

PORTAGE VIEW HOSPITAL

200-210 Michigan Street
Hancock, MI 49930

Medicare Provider Number: 230108

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	540	9.3	9.7	1.4	14.4	14.6	1.6	17.8	18.5	1.8
CONDITIONS:										
Acute Myocardial Infarction	16	25.0	26.8	*	25.0	30.6	*	31.3	34.2	*
Congestive Heart Failure	41	14.6	18.2	*	24.4	27.4	*	34.1	34.6	*
Pneumonia/Influenza	21	4.8	15.3	*	19.0	20.6	*	19.0	24.6	*
Chronic Obstructive Pulmonary Disease	1	0.0	2.7	*	0.0	5.3	*	0.0	7.8	*
Transient Cerebral Ischemia	9	11.1	1.8	*	22.2	4.3	*	22.2	7.1	*
Stroke	24	29.2	19.3	*	37.5	25.8	*	45.8	30.2	*
Hip Fracture	21	0.0	4.9	*	0.0	8.5	*	0.0	11.2	*
Sepsis	9	33.3	28.1	*	44.4	37.0	*	44.4	43.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	6.2	*	0.0	11.8	*	0.0	16.0	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	14	0.0	3.9	*	0.0	7.4	*	0.0	10.0	*
Open Reduction of Hip Fracture	5	0.0	6.1	*	0.0	10.6	*	0.0	13.4	*
Prostatectomy	36	0.0	0.9	*	2.8	2.2	*	5.6	3.6	*
Cholecystectomy	9	0.0	2.3	*	0.0	4.3	*	0.0	5.4	*
Hysterectomy	6	0.0	0.6	*	0.0	1.4	*	0.0	2.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	72
Occupancy Rate	76
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	24
Percent of Physicians Board Certified Specialists	58
Medical Residents/Interns	0
Registered Nurses	47
Licensed Practical Nurses	2

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

PORTAGE VIEW HOSPITAL
Medicare Provider Number: 230108

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	582	9.6	9.0	1.4	15.5	13.4	1.9	19.6	16.9	2.4
CONDITIONS:										
Acute Myocardial Infarction	19	21.1	23.4	*	21.1	26.3	*	36.8	29.5	*
Congestive Heart Failure	26	19.2	19.4	*	30.8	27.9	*	38.5	35.1	*
Pneumonia/Influenza	23	8.7	13.9	*	13.0	18.9	*	17.4	23.1	*
Chronic Obstructive Pulmonary Disease	2	0.0	10.8	*	0.0	16.7	*	0.0	22.0	*
Transient Cerebral Ischemia	15	6.7	2.3	*	6.7	5.1	*	6.7	8.1	*
Stroke	24	41.7	19.6	*	62.5	25.7	*	62.5	30.2	*
Hip Fracture	25	8.0	7.5	*	12.0	13.4	*	12.0	17.2	*
Sepsis	9	33.3	33.7	*	44.4	41.8	*	44.4	48.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	50.0	34.6	*	50.0	39.9	*	50.0	44.1	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	12	8.3	5.5	*	25.0	11.2	*	25.0	15.3	*
Open Reduction of Hip Fracture	11	9.1	8.2	*	9.1	14.7	*	9.1	18.6	*
Prostatectomy	42	0.0	1.3	*	2.4	3.2	*	4.8	5.2	*
Cholecystectomy	13	0.0	4.7	*	7.7	8.6	*	15.4	11.1	*
Hysterectomy	5	0.0	0.3	*	0.0	0.5	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	530	9.4	9.1	1.6	14.3	13.7	1.6	16.0	17.3	1.8
CONDITIONS:										
Acute Myocardial Infarction	21	19.0	27.3	*	28.6	31.9	*	33.3	36.0	*
Congestive Heart Failure	35	11.4	14.6	*	14.3	22.1	*	17.1	28.5	*
Pneumonia/Influenza	27	22.2	13.8	*	25.9	19.4	*	29.6	23.7	*
Chronic Obstructive Pulmonary Disease	8	0.0	10.9	*	12.5	18.3	*	12.5	24.0	*
Transient Cerebral Ischemia	12	8.3	2.6	*	8.3	5.7	*	8.3	9.1	*
Stroke	23	8.7	17.5	*	13.0	24.1	*	17.4	28.6	*
Hip Fracture	25	8.0	5.5	*	12.0	9.9	*	12.0	12.8	*
Sepsis	3	33.3	35.3	*	33.3	44.3	*	66.7	51.4	*
PROCEDURES:										
Angioplasty	2	0.0	12.4	*	0.0	14.8	*	0.0	16.9	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	5	0.0	3.5	*	20.0	7.4	*	20.0	11.2	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	10	10.0	3.0	*	10.0	6.0	*	10.0	8.2	*
Open Reduction of Hip Fracture	11	0.0	4.8	*	9.1	8.9	*	9.1	11.4	*
Prostatectomy	37	2.7	1.2	*	5.4	2.7	*	5.4	4.4	*
Cholecystectomy	7	14.3	6.9	*	28.6	14.3	*	28.6	19.7	*
Hysterectomy	2	0.0	0.2	*	0.0	0.3	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

PROVIDENCE HOSPITAL

16001 W Nine Mile Rd
Southfield, MI 48037

Medicare Provider Number: 230019

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,826	9.1	10.7	0.6	14.0	16.0	0.7	17.3	20.0	0.7
CONDITIONS:										
Acute Myocardial Infarction	125	24.8	27.3	7.1	27.2	30.6	7.6	29.6	33.9	8.5
Congestive Heart Failure	219	16.0	16.6	3.0	22.8	25.2	3.6	27.9	32.2	5.4
Pneumonia/Influenza	115	17.4	16.9	4.1	25.2	22.7	5.3	27.8	27.2	4.4
Chronic Obstructive Pulmonary Disease	41	2.4	11.0	*	2.4	16.3	*	17.1	21.2	*
Transient Cerebral Ischemia	67	3.0	1.7	1.9	3.0	3.5	2.5	6.0	5.5	2.8
Stroke	173	15.0	21.7	5.2	22.0	29.0	6.0	26.6	33.6	6.1
Hip Fracture	95	7.4	8.5	3.0	13.7	14.4	3.8	16.8	18.0	4.9
Sepsis	62	35.5	34.8	6.7	45.2	44.1	8.4	50.0	50.8	7.7
PROCEDURES:										
Angioplasty	18	0.0	2.4	*	0.0	3.2	*	0.0	4.3	*
Coronary Artery Bypass Graft	39	2.6	5.9	*	2.6	7.7	*	5.1	8.9	*
Initial Pacemaker Insertion	33	6.1	3.8	*	9.1	7.3	*	9.1	10.4	*
Carotid Endarterectomy	18	5.6	1.5	*	5.6	2.5	*	5.6	3.7	*
Hip Replacement/Reconstruction	64	1.6	4.6	3.5	4.7	8.2	5.0	6.3	10.5	5.8
Open Reduction of Hip Fracture	54	11.1	7.3	6.6	16.7	12.9	7.4	18.5	16.4	7.3
Prostatectomy	151	0.7	1.1	0.9	2.0	2.7	1.4	4.0	4.5	1.8
Cholecystectomy	73	1.4	3.8	3.5	2.7	6.6	4.8	5.5	8.3	5.3
Hysterectomy	41	2.4	1.0	*	2.4	2.0	*	2.4	2.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	462
Occupancy Rate	78
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	448
Percent of Physicians Board Certified Specialists	71
Medical Residents/Interns	122
Registered Nurses	565
Licensed Practical Nurses	18

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	Yes

**** Not used in calculating hospital mortality rates.**

PROVIDENCE HOSPITAL

Medicare Provider Number: 230019

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,845	8.8	10.3	0.7	14.3	15.3	0.8	17.9	19.2	0.7
CONDITIONS:										
Acute Myocardial Infarction	150	22.0	28.0	7.1	28.0	31.4	6.8	30.7	34.9	5.5
Congestive Heart Failure	194	19.1	17.4	2.9	27.3	25.9	3.4	30.4	32.9	3.7
Pneumonia/Influenza	141	19.1	18.6	3.4	29.1	25.1	5.4	32.6	30.0	4.7
Chronic Obstructive Pulmonary Disease	53	15.1	9.5	8.4	22.6	15.9	8.5	24.5	21.2	7.7
Transient Cerebral Ischemia	89	2.2	2.0	2.3	2.2	4.2	3.0	4.5	6.5	3.9
Stroke	145	18.6	22.2	3.9	30.3	29.5	3.8	33.8	34.3	3.9
Hip Fracture	96	3.1	7.4	3.3	7.3	12.8	4.1	14.6	16.0	3.8
Sepsis	48	43.7	32.9	*	54.2	43.3	*	62.5	50.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	29	13.8	5.1	*	20.7	9.0	*	20.7	12.3	*
Carotid Endarterectomy	13	0.0	1.5	*	0.0	2.6	*	0.0	3.7	*
Hip Replacement/Reconstruction	65	1.5	3.5	2.5	1.5	6.5	3.8	3.1	8.5	4.4
Open Reduction of Hip Fracture	55	3.6	6.8	4.6	9.1	12.3	5.2	16.4	15.7	4.9
Prostatectomy	151	0.0	1.0	*	0.0	2.4	*	0.0	3.9	*
Cholecystectomy	55	0.0	2.0	2.7	0.0	3.5	4.2	1.8	4.6	3.8
Hysterectomy	49	0.0	0.8	*	0.0	1.7	*	0.0	2.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,866	8.9	10.6	0.5	14.9	15.8	0.6	19.1	19.8	0.7
CONDITIONS:										
Acute Myocardial Infarction	173	28.9	30.0	3.6	36.4	33.6	3.7	39.3	37.1	3.8
Congestive Heart Failure	199	23.1	17.7	5.0	31.7	26.2	5.6	40.2	33.1	5.9
Pneumonia/Influenza	127	16.5	21.2	5.5	25.2	28.0	4.6	29.1	33.4	6.1
Chronic Obstructive Pulmonary Disease	71	12.7	13.6	4.6	22.5	21.6	4.9	28.2	27.3	6.2
Transient Cerebral Ischemia	92	6.5	2.4	3.0	9.8	5.0	3.8	12.0	7.8	4.0
Stroke	134	11.2	20.7	4.8	16.4	27.9	5.3	20.9	32.3	5.5
Hip Fracture	79	7.6	8.0	3.1	11.4	14.0	4.3	13.9	17.7	5.7
Sepsis	50	14.0	35.5	*	44.0	45.5	*	54.0	52.9	*
PROCEDURES:										
Angioplasty	1	0.0	3.0	*	100.0	6.9	*	100.0	10.5	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	34	5.9	4.5	*	5.9	7.9	*	5.9	10.9	*
Carotid Endarterectomy	16	0.0	1.8	*	6.3	3.5	*	6.3	5.1	*
Hip Replacement/Reconstruction	55	0.0	4.6	5.0	1.8	8.4	6.6	1.8	11.0	8.4
Open Reduction of Hip Fracture	48	10.4	6.9	*	16.7	12.8	*	20.8	16.5	*
Prostatectomy	101	0.0	1.2	1.5	1.0	2.8	2.3	4.0	4.7	2.2
Cholecystectomy	69	5.8	4.4	2.8	10.1	7.5	4.9	17.4	9.7	5.7
Hysterectomy	30	0.0	0.9	*	3.3	1.7	*	3.3	2.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

PROVIDENCE HOSPITAL
16001 WEST NINE MILE ROAD
P.O. BOX 2043
SOUTHFIELD, MICHIGAN 48037
313 424-3000

MEDICARE PROVIDER NO. 230019

January 14, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Attention: Mrs. Sandra Kappert

Providence Hospital has received the new mortality statistics for fiscal years 1989, 1988 and 1987 and has reviewed the underlying data. Although we recognize the improvement that HCFA has made to the methodology used, we continue to have much concern that a method for a true comparison of hospitals has not been achieved. We believe that large urban teaching hospitals such as Providence are greatly impacted by those very factors not included in the mathematical extrapolations in your morbidity statistics. We feel that factors such as environmental circumstances contributing to death after discharge (i.e. poor nursing home or home care), and the inaccuracies resulting from reporting of deaths under the principal diagnosis which may obscure the exact cause of death, need to be better adjusted to provide valuable data.

Furthermore, we believe that any review of hospital specific mortality rates must be made in concert with the role that an institution plays in providing total health-care to its service area. The present methodology used to arrive at your mortality statistics, although improved over prior years, still only provides crude data and should in no way be used to judge quality of care in a hospital.

Providence Hospital, a 462 bed acute-care teaching hospital, is located in the southeastern part of Oakland County. The service area is characterized as highly industrialized with diverse ethnic groups living in close proximity to the hospital campus. The hospital's primary service area of Southfield, from which about 20% of patients come, is characterized by a much larger proportion of older adults (17.5%) to total population than the rest of the State of Michigan (11.5%). Additionally, because Providence is a teaching institution, many of our patients come here as a last resort after several other hospitalizations. These patients often suffer from multi-system deterioration and have an extremely poor outcome prognosis. A very large

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percentage of the patients who expired at Providence entered the hospital with an emergency condition and the majority of the patients required a high level of care found only in intensive care or cardiac care units. Providence Hospital operates an active Emergency Department, the largest in its primary service area, treating approximately 41,000 patients each year. About 38% of our inpatient population is admitted through the Emergency Department.

It is also important to note that at Providence the average age at death for all Medicare patients was significantly above the average U.S. life expectancy norm.

Quality of care is of utmost importance to Providence Hospital's governing board, management and medical staff. To assure a high quality of service to our patients, the hospital has established a comprehensive quality assurance program which monitors all morbidity and mortality issues on an ongoing basis. All potential quality issues are reviewed by physicians, nurses and other appropriate health-care professionals. Corrective actions, if appropriate, are taken and outcomes are monitored and reported to the Board of Trustees. All individual deaths are reviewed by a medical staff committee as part of the quality assurance process. Providence has a medical staff of 683 physicians, 84% of whom are board certified.

Although we feel that the mortality statistics developed by HCFA are still somewhat crude and do not provide an accurate and valid measure of the quality of care provided by a hospital, Providence acknowledges that the statistics do represent additional data to further evaluate patient care as well as physician practice patterns. Providence Hospital will utilize these data in its continuing effort to enhance the quality of patient care.

Sincerely,

Brian Connolly

Brian Connolly
President

BC:zn
01-14-91
a:hlthcare

REDFORD COMMUNITY HOSPITAL

25210 Grand River Ave
Redford, MI 48240

Medicare Provider Number: 230084

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	187	11.8	9.8	3.9	16.6	14.0	4.0	20.9	17.5	4.5
CONDITIONS:										
Acute Myocardial Infarction	1	0.0	25.6	*	0.0	28.8	*	0.0	33.2	*
Congestive Heart Failure	17	11.8	14.9	*	23.5	22.2	*	29.4	28.6	*
Pneumonia/Influenza	10	20.0	12.7	*	20.0	17.1	*	20.0	21.1	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	4	0.0	1.8	*	0.0	3.8	*	0.0	6.1	*
Stroke	9	22.2	21.8	*	33.3	27.6	*	33.3	31.6	*
Hip Fracture	5	0.0	4.2	*	20.0	7.2	*	20.0	9.4	*
Sepsis	4	50.0	37.5	*	50.0	44.6	*	50.0	50.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	3.5	*	0.0	6.2	*	0.0	8.1	*
Open Reduction of Hip Fracture	1	0.0	4.0	*	100.0	7.2	*	100.0	9.4	*
Prostatectomy	8	0.0	0.4	*	0.0	1.0	*	0.0	1.7	*
Cholecystectomy	2	0.0	0.8	*	0.0	1.3	*	0.0	1.7	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	68
Occupancy Rate	25
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	45
Percent of Physicians Board Certified Specialists	58
Medical Residents/Interns	(Not Available)
Registered Nurses	(Not Available)
Licensed Practical Nurses	(Not Available)

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	Yes
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

REDFORD COMMUNITY HOSPITAL

Medicare Provider Number: 230084

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	320	11.9	11.7	1.9	18.1	16.5	2.6	23.7	20.4	3.7
CONDITIONS:										
Acute Myocardial Infarction	8	25.0	36.5	*	37.5	39.4	*	37.5	42.8	*
Congestive Heart Failure	18	11.1	16.7	*	22.2	25.4	*	33.3	32.3	*
Pneumonia/Influenza	9	22.2	22.2	*	33.3	28.6	*	33.3	33.6	*
Chronic Obstructive Pulmonary Disease	16	12.5	8.7	*	12.5	14.1	*	12.5	19.0	*
Transient Cerebral Ischemia	7	0.0	1.8	*	14.3	3.8	*	14.3	5.9	*
Stroke	16	56.3	27.0	*	56.3	33.9	*	68.8	39.3	*
Hip Fracture	10	0.0	7.6	*	10.0	13.7	*	10.0	17.6	*
Sepsis	4	50.0	51.9	*	75.0	63.4	*	75.0	71.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	2.1	*	50.0	4.4	*	50.0	6.7	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	12.2	*	50.0	22.1	*	50.0	27.6	*
Open Reduction of Hip Fracture	0									
Prostatectomy	8	0.0	0.7	*	0.0	1.7	*	0.0	2.8	*
Cholecystectomy	2	0.0	3.1	*	0.0	5.3	*	50.0	6.6	*
Hysterectomy	1	0.0	0.3	*	0.0	0.8	*	0.0	1.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	305	15.4	11.5	2.6	20.3	17.0	3.2	26.6	21.4	3.6
CONDITIONS:										
Acute Myocardial Infarction	8	25.0	26.0	*	25.0	29.0	*	25.0	32.0	*
Congestive Heart Failure	26	38.5	17.4	*	50.0	25.4	*	53.8	32.3	*
Pneumonia/Influenza	12	25.0	20.7	*	33.3	27.5	*	50.0	32.6	*
Chronic Obstructive Pulmonary Disease	5	20.0	9.5	*	20.0	15.6	*	20.0	20.6	*
Transient Cerebral Ischemia	7	0.0	2.3	*	0.0	5.1	*	14.3	8.2	*
Stroke	15	20.0	26.6	*	33.3	32.1	*	53.3	36.1	*
Hip Fracture	12	0.0	4.9	*	0.0	9.1	*	8.3	12.4	*
Sepsis	3	33.3	34.8	*	66.7	45.1	*	66.7	53.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	2.4	*	0.0	4.7	*	0.0	6.5	*
Open Reduction of Hip Fracture	6	0.0	3.4	*	0.0	6.9	*	0.0	9.8	*
Prostatectomy	5	0.0	2.0	*	0.0	5.1	*	0.0	8.9	*
Cholecystectomy	3	0.0	5.0	*	0.0	8.6	*	0.0	11.1	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

REED CITY HOSPITAL

7665 Patterson Rd
Reed City, MI 49677

Medicare Provider Number: 230086

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	433	9.0	9.7	2.3	13.6	14.5	3.4	16.2	18.4	3.4
CONDITIONS:										
Acute Myocardial Infarction	14	21.4	33.8	*	21.4	36.7	*	21.4	40.2	*
Congestive Heart Failure	46	10.9	15.8	*	19.6	24.5	*	21.7	31.7	*
Pneumonia/Influenza	25	24.0	15.9	*	32.0	21.9	*	32.0	26.8	*
Chronic Obstructive Pulmonary Disease	9	11.1	9.4	*	22.2	15.2	*	22.2	20.8	*
Transient Cerebral Ischemia	15	0.0	1.7	*	0.0	3.8	*	0.0	6.2	*
Stroke	11	9.1	20.0	*	18.2	28.8	*	27.3	33.8	*
Hip Fracture	6	33.3	7.8	*	33.3	14.2	*	33.3	18.5	*
Sepsis	5	20.0	17.6	*	40.0	22.8	*	60.0	27.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	8	25.0	5.7	*	37.5	10.7	*	37.5	14.2	*
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	2	0.0	11.0	*	0.0	23.0	*	0.0	31.3	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	110
Occupancy Rate	63
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	15
Percent of Physicians Board Certified Specialists	100
Medical Residents/Interns	(Not Available)
Registered Nurses	(Not Available)
Licensed Practical Nurses	(Not Available)

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

REED CITY HOSPITAL

Medicare Provider Number: 230086

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	450	11.3	11.1	1.9	14.9	16.2	2.2	19.6	20.2	2.2
CONDITIONS:										
Acute Myocardial Infarction	9	33.3	31.8	*	33.3	34.8	*	33.3	38.4	*
Congestive Heart Failure	35	17.1	18.5	*	20.0	28.2	*	22.9	35.8	*
Pneumonia/Influenza	32	12.5	18.2	*	15.6	24.5	*	21.9	29.1	*
Chronic Obstructive Pulmonary Disease	6	0.0	4.2	*	0.0	8.5	*	16.7	12.4	*
Transient Cerebral Ischemia	7	0.0	2.7	*	0.0	6.5	*	0.0	10.7	*
Stroke	25	12.0	15.0	*	20.0	21.8	*	28.0	26.2	*
Hip Fracture	15	6.7	7.7	*	6.7	13.7	*	20.0	17.5	*
Sepsis	6	33.3	30.9	*	50.0	38.6	*	50.0	44.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	0.0	2.9	*	0.0	5.2	*	0.0	6.6	*
Open Reduction of Hip Fracture	13	7.7	6.9	*	7.7	13.0	*	23.1	16.9	*
Prostatectomy	0									
Cholecystectomy	10	0.0	1.5	*	0.0	2.6	*	0.0	3.4	*
Hysterectomy	2	0.0	0.2	*	0.0	0.3	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	461	11.7	10.8	1.9	15.0	15.8	2.1	16.9	19.8	2.4
CONDITIONS:										
Acute Myocardial Infarction	23	17.4	33.2	*	17.4	36.1	*	17.4	39.4	*
Congestive Heart Failure	28	28.6	16.3	*	32.1	23.5	*	32.1	29.9	*
Pneumonia/Influenza	30	23.3	15.4	*	30.0	21.2	*	33.3	25.8	*
Chronic Obstructive Pulmonary Disease	4	0.0	13.8	*	0.0	25.6	*	0.0	35.0	*
Transient Cerebral Ischemia	19	5.3	2.1	*	5.3	4.7	*	5.3	7.5	*
Stroke	23	21.7	20.5	*	21.7	28.0	*	21.7	33.1	*
Hip Fracture	9	0.0	5.6	*	0.0	11.0	*	0.0	15.0	*
Sepsis	8	0.0	26.5	*	12.5	32.7	*	37.5	37.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	3.9	*	0.0	8.0	*	0.0	10.8	*
Open Reduction of Hip Fracture	7	0.0	4.5	*	0.0	9.2	*	0.0	12.7	*
Prostatectomy	0									
Cholecystectomy	7	0.0	1.1	*	0.0	2.0	*	0.0	2.6	*
Hysterectomy	1	0.0	0.3	*	0.0	0.5	*	0.0	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

RIVER DISTRICT HOSPITAL

4100 South River Road
St Clair, MI 48079

Medicare Provider Number: 230241

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	642	10.7	10.4	1.5	16.7	15.1	2.4	20.1	18.8	2.6
CONDITIONS:										
Acute Myocardial Infarction	28	35.7	26.0	*	39.3	29.5	*	46.4	33.0	*
Congestive Heart Failure	49	16.3	15.5	*	24.5	24.4	*	36.7	31.7	*
Pneumonia/Influenza	37	21.6	20.8	*	29.7	27.8	*	32.4	32.9	*
Chronic Obstructive Pulmonary Disease	24	4.2	13.1	*	8.3	20.7	*	16.7	26.6	*
Transient Cerebral Ischemia	14	0.0	2.0	*	7.1	4.7	*	7.1	7.7	*
Stroke	31	25.8	22.5	*	38.7	30.1	*	45.2	34.7	*
Hip Fracture	11	0.0	8.1	*	27.3	14.2	*	36.4	18.0	*
Sepsis	8	37.5	20.5	*	37.5	26.9	*	37.5	31.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	8	0.0	1.1	*	0.0	2.0	*	0.0	2.8	*
Hip Replacement/Reconstruction	5	0.0	2.4	*	0.0	4.9	*	20.0	7.0	*
Open Reduction of Hip Fracture	6	0.0	8.2	*	33.3	15.1	*	33.3	19.3	*
Prostatectomy	14	0.0	0.5	*	0.0	1.1	*	0.0	1.9	*
Cholecystectomy	12	0.0	1.8	*	0.0	3.7	*	0.0	5.6	*
Hysterectomy	2	0.0	0.1	*	0.0	0.2	*	0.0	0.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	68
Occupancy Rate	50
Ownership/Control	District/Authority

STAFFING: (As of September 30, 1989)

Total Number of Physicians	57
Percent of Physicians Board Certified Specialists	72
Medical Residents/Interns	0
Registered Nurses	58
Licensed Practical Nurses	39

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

RIVER DISTRICT HOSPITAL

Medicare Provider Number: 230241

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	667	9.3	10.1	1.6	15.0	14.6	2.0	18.1	18.3	1.5
CONDITIONS:										
Acute Myocardial Infarction	28	25.0	29.0	*	28.6	32.5	*	35.7	36.2	*
Congestive Heart Failure	42	16.7	18.0	*	28.6	27.3	*	33.3	34.6	*
Pneumonia/Influenza	29	10.3	18.9	*	24.1	24.9	*	27.6	29.5	*
Chronic Obstructive Pulmonary Disease	11	9.1	9.3	*	9.1	15.6	*	9.1	20.7	*
Transient Cerebral Ischemia	16	0.0	2.5	*	6.3	5.4	*	18.8	8.6	*
Stroke	30	20.0	23.4	*	30.0	31.0	*	33.3	35.7	*
Hip Fracture	12	16.7	7.5	*	25.0	13.3	*	25.0	16.6	*
Sepsis	7	28.6	35.9	*	28.6	41.1	*	42.9	46.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	13.7	*	0.0	17.2	*	0.0	21.1	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	11	0.0	4.6	*	9.1	9.0	*	9.1	11.7	*
Open Reduction of Hip Fracture	5	40.0	7.1	*	40.0	12.5	*	40.0	15.5	*
Prostatectomy	32	3.1	0.6	*	3.1	1.4	*	6.3	2.4	*
Cholecystectomy	14	7.1	3.4	*	7.1	6.3	*	7.1	8.0	*
Hysterectomy	2	0.0	0.1	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	639	11.9	10.0	2.1	16.7	14.9	2.4	19.7	18.7	2.6
CONDITIONS:										
Acute Myocardial Infarction	29	27.6	25.2	*	27.6	28.1	*	27.6	31.3	*
Congestive Heart Failure	36	30.6	21.7	*	41.7	32.2	*	44.4	39.9	*
Pneumonia/Influenza	23	8.7	15.9	*	17.4	21.9	*	21.7	26.7	*
Chronic Obstructive Pulmonary Disease	16	6.3	12.4	*	6.3	19.7	*	18.8	25.7	*
Transient Cerebral Ischemia	15	6.7	2.5	*	6.7	5.7	*	6.7	8.9	*
Stroke	20	40.0	27.4	*	45.0	34.8	*	50.0	39.3	*
Hip Fracture	20	10.0	7.6	*	20.0	14.6	*	30.0	19.3	*
Sepsis	3	33.3	30.5	*	66.7	38.9	*	66.7	45.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	2.4	*	0.0	4.6	*	0.0	6.8	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	10	20.0	10.1	*	40.0	17.5	*	60.0	22.2	*
Open Reduction of Hip Fracture	8	0.0	5.0	*	0.0	9.8	*	0.0	13.2	*
Prostatectomy	25	0.0	0.9	*	0.0	2.1	*	0.0	3.4	*
Cholecystectomy	8	0.0	1.7	*	0.0	3.3	*	0.0	4.7	*
Hysterectomy	5	0.0	1.9	*	0.0	4.5	*	0.0	7.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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RIVER
DISTRICT
HOSPITAL

4100 South River Rd. • St. Clair, MI • 48079 • (313) 329-7111 • (313) 765-3555

January
Fifteen
1991

Sandra Kappert
Health Standards and Quality Bureau
Health Care Financing Administration
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Mrs. Kappert:

Thank you for the opportunity to review and respond to the HCFA mortality data before it is published. It is our hope that consumers will review this data carefully using appropriate confidence ranges to determine if the difference between observed and predicted rates is of real concern or due to chance. With the data as presented it is quite easy to focus only on the difference in percentages between the observed and predicted rate for specific conditions/procedures which can lead to false conclusions.

When our data is viewed using the confidence ranges it is clear that our observed mortality falls well within the expected range for "all causes". However, due to the small number of cases for specific categories/procedures, a standard deviation was not provided by HCFA. Therefore, a confidence range could not be established. Thus, one cannot statistically determine the significance of any differences for these specific procedures and conditions.

It is important to note that at River District Hospital one of our quality assurance indicators is the review of all deaths by all medical staff departments. Questions dealing with the patient's past medical history and hospitalization, medication given and other treatment provided are some of the criteria reviewed. In addition our Quality Assurance and Utilization Review Committees review for any patterns/problems with the hospital care, population served and/or the availability and appropriateness of community resources upon discharge.

Sincerely,

Frank Poma

Frank Poma
Assistant Administrator

Affiliated with St. John Hospital and Medical Center

RIVERSIDE OSTEOPATHIC HOSPITAL

150 Truax Street
Trenton, MI 48183

Medicare Provider Number: 230169

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,235	12.9	9.8	1.2	18.3	14.7	1.4	21.5	18.4	1.5
CONDITIONS:										
Acute Myocardial Infarction	50	28.0	29.2	*	32.0	32.2	*	36.0	35.4	*
Congestive Heart Failure	63	12.7	16.6	5.7	23.8	23.8	5.5	30.2	30.6	6.0
Pneumonia/Influenza	34	23.5	16.3	*	32.4	22.9	*	32.4	27.5	*
Chronic Obstructive Pulmonary Disease	28	14.3	8.0	*	14.3	14.3	*	17.9	20.0	*
Transient Cerebral Ischemia	20	10.0	1.9	*	25.0	4.3	*	25.0	6.9	*
Stroke	50	26.0	20.6	*	32.0	28.3	*	36.0	33.0	*
Hip Fracture	38	10.5	6.9	*	15.8	12.3	*	23.7	16.0	*
Sepsis	14	35.7	24.1	*	42.9	33.8	*	57.1	40.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	6	0.0	1.2	*	0.0	2.6	*	0.0	4.1	*
Carotid Endarterectomy	7	14.3	1.2	*	14.3	2.2	*	14.3	3.2	*
Hip Replacement/Reconstruction	30	3.3	3.9	*	6.7	7.8	*	16.7	11.2	*
Open Reduction of Hip Fracture	16	6.3	6.1	*	18.8	10.8	*	18.8	13.8	*
Prostatectomy	41	0.0	0.5	*	0.0	1.1	*	0.0	1.9	*
Cholecystectomy	34	0.0	1.1	*	0.0	2.0	*	2.9	2.6	*
Hysterectomy	6	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	185
Occupancy Rate	51
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	106
Percent of Physicians Board Certified Specialists	49
Medical Residents/Interns	25
Registered Nurses	102
Licensed Practical Nurses	14

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

RIVERSIDE OSTEOPATHIC HOSPITAL

Medicare Provider Number: 230169

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,237	12.2	9.9	1.3	18.0	14.7	1.4	22.9	18.4	1.6
CONDITIONS:										
Acute Myocardial Infarction	46	39.1	29.2	*	43.5	32.6	*	52.2	36.3	*
Congestive Heart Failure	74	14.9	17.3	5.0	24.3	24.2	5.0	32.4	30.9	6.5
Pneumonia/Influenza	38	23.7	16.5	*	36.8	22.3	*	42.1	26.9	*
Chronic Obstructive Pulmonary Disease	30	6.7	9.9	*	10.0	15.8	*	20.0	20.9	*
Transient Cerebral Ischemia	18	0.0	1.6	*	5.6	3.4	*	11.1	5.4	*
Stroke	54	20.4	20.2	5.5	27.8	26.9	6.3	37.0	31.4	9.7
Hip Fracture	23	8.7	5.1	*	8.7	9.5	*	13.0	12.6	*
Sepsis	22	31.8	25.6	*	45.5	34.4	*	50.0	40.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	1.6	*	0.0	3.1	*	0.0	4.3	*
Carotid Endarterectomy	3	0.0	1.0	*	0.0	1.9	*	0.0	2.8	*
Hip Replacement/Reconstruction	15	0.0	2.3	*	0.0	4.7	*	6.7	6.4	*
Open Reduction of Hip Fracture	13	7.7	4.7	*	7.7	9.3	*	15.4	12.6	*
Prostatectomy	57	3.5	0.5	2.6	3.5	1.3	2.2	5.3	2.2	3.4
Cholecystectomy	39	0.0	1.7	*	2.6	3.1	*	2.6	4.0	*
Hysterectomy	6	0.0	2.2	*	0.0	4.4	*	0.0	6.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,136	11.6	10.0	1.0	18.8	15.1	1.4	23.6	19.1	1.6
CONDITIONS:										
Acute Myocardial Infarction	52	26.9	31.9	8.3	32.7	35.7	7.1	40.4	39.3	6.9
Congestive Heart Failure	71	15.5	17.0	5.3	21.1	23.4	5.7	26.8	29.5	6.0
Pneumonia/Influenza	38	23.7	17.0	*	39.5	23.4	*	47.4	28.5	*
Chronic Obstructive Pulmonary Disease	23	4.3	12.2	*	17.4	19.6	*	26.1	24.9	*
Transient Cerebral Ischemia	23	8.7	2.0	*	8.7	4.4	*	17.4	7.1	*
Stroke	37	16.2	16.9	*	27.0	24.1	*	27.0	28.4	*
Hip Fracture	29	10.3	6.0	*	17.2	11.1	*	27.6	14.6	*
Sepsis	18	38.9	31.7	*	55.6	43.1	*	61.1	50.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	14.3	5.4	*	28.6	9.3	*	28.6	12.3	*
Carotid Endarterectomy	4	0.0	1.4	*	0.0	2.4	*	0.0	3.3	*
Hip Replacement/Reconstruction	12	0.0	3.2	*	16.7	6.0	*	16.7	7.9	*
Open Reduction of Hip Fracture	18	11.1	5.5	*	11.1	10.6	*	27.8	14.1	*
Prostatectomy	43	0.0	0.6	*	2.3	1.4	*	2.3	2.4	*
Cholecystectomy	30	0.0	1.4	*	0.0	2.3	*	3.3	3.0	*
Hysterectomy	5	0.0	0.6	*	0.0	1.4	*	0.0	2.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

515.1

Hospital ID: 230169

Riverside Osteopathic Hospital
AN AFFILIATE OF HORIZON HEALTH SYSTEMS

January 15, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Mrs. Kappert:

The administration and quality assessment department of Riverside Osteopathic Hospital have reviewed the figures attributed to our hospital in the HCFA Mortality Study September 1988 - October 1989. We appreciate the opportunity to review this material and to prepare a response.

The study represents only 63% of the Medicare cases treated at the hospital during this time frame. In one category, All Causes, the hospital's observed mortality rates exceed its predicted mortality rates, however, 40% of these deaths occurred outside of the hospital.

This point is of particular interest because so many factors have an impact on a death. Was the patient non-compliant with the physician's order? Was the death the result of an accident, injury or a new condition? Death after discharge, especially in the 30 day, 90 day and 180 day time frames make proving the death was a direct result of the level of care delivered at an institution very difficult, if not virtually impossible to link.

Using this model, a patient may have one hospitalization, be released within 29 days after admission and die in an automobile accident. Another illustration is a patient has one hospitalization, is discharged, and within 45 days of that admission is taken to an emergency department at a different hospital with a different condition and expires. The mortality statistic may appear on the first hospital's figures, the hospital where the patient had previously been admitted, not on the hospital's list where the death actually occurred. This patient may not have received adequate medical attention in a timely manner, or this emergency department may not have been equipped to handle this case. These are only two scenarios. There are several others which illustrate the same point. Death is not necessarily a reliable indicator of quality of care.

Hospital based deaths are the only situations which provide quality assurance programs through means of careful documentation, meaningful information to study.

Determining quality of care is not an exact science. So many variables have an impact on an individual case, and the final decision, that a mathematic formula can fully address the issues in a succinct manner is doubtful. Intense case review, while time consuming and labor intensive, remains the most reliable method of determining quality of care issues. Riverside Osteopathic Hospital, like most facilities, maintains an internal quality assessment department that performs these duties on an ongoing basis. The department also interfaces with the state peer review organization and adheres to that regulating body's standards and guidelines for practice methods.

HCFA has put forth a great deal of effort in refining its statistical model. Each year a new study is published. Each year the same information from previous studies is applied to the new model resulting in new outcomes. The hospital industry finds this somewhat confusing. If we who work closest to the information find it confusing, the general public must also be at odds with its opinion. One year a hospital performs at acceptable levels. The next year the same hospital and same statistics are applied to a new formula and the outcome is not as complimentary. Which model is right? Which is better?

Riverside Hospital reinforces the idea that this study in no way be considered an all encompassing formula for making rather quick judgements on a very serious and complex issue. Rather the study should be valued for what it is, one part of a task involving several components. The study was never meant to stand alone. It is, as was intended, one tool to be used in concert with others, to assist quality assurance professionals in determining the quality of health care delivered in this nation.

We at Riverside Osteopathic Hospital thank the HCFA staff for the opportunity to review the 1989 Medicare Mortality Information and to comment on the results. By working together, hospitals and agencies may achieve their common goal, delivering the best medical care available.

Respectfully submitted,

Dennis A. Christen
Vice-President/Administrator
Riverside Osteopathic Hospital

/jw

ROGERS CITY HOSPITAL

555 N Bradley Hwy
Rogers City, MI 49779

Medicare Provider Number: 230014

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	328	8.8	9.8	1.8	12.8	14.3	2.2	14.9	18.2	3.2
CONDITIONS:										
Acute Myocardial Infarction	16	31.3	27.8	*	37.5	31.7	*	37.5	35.4	*
Congestive Heart Failure	22	4.5	15.2	*	18.2	24.0	*	22.7	31.4	*
Pneumonia/Influenza	18	5.6	10.8	*	16.7	14.8	*	16.7	18.1	*
Chronic Obstructive Pulmonary Disease	4	25.0	7.6	*	25.0	12.1	*	25.0	16.3	*
Transient Cerebral Ischemia	8	0.0	1.3	*	0.0	3.2	*	0.0	5.1	*
Stroke	2	50.0	40.6	*	50.0	50.7	*	50.0	56.9	*
Hip Fracture	0									
Sepsis	2	0.0	20.8	*	0.0	24.5	*	0.0	28.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	4	0.0	2.1	*	0.0	3.5	*	0.0	4.3	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	89
Occupancy Rate	65
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	4
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	0
Registered Nurses	23
Licensed Practical Nurses	13

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

ROGERS CITY HOSPITAL

Medicare Provider Number: 230014

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	265	9.1	12.0	2.6	11.7	17.3	3.7	16.2	21.5	3.8
CONDITIONS:										
Acute Myocardial Infarction	16	12.5	25.0	*	12.5	28.3	*	18.8	31.9	*
Congestive Heart Failure	25	8.0	16.7	*	12.0	25.2	*	16.0	32.3	*
Pneumonia/Influenza	12	16.7	23.9	*	16.7	30.8	*	16.7	35.3	*
Chronic Obstructive Pulmonary Disease	4	50.0	32.7	*	50.0	41.4	*	50.0	46.2	*
Transient Cerebral Ischemia	4	0.0	1.6	*	0.0	3.7	*	0.0	6.1	*
Stroke	6	16.7	24.3	*	33.3	34.0	*	33.3	39.6	*
Hip Fracture	0									
Sepsis	3	33.3	30.7	*	33.3	38.3	*	33.3	43.3	*
PROCEDURES:										
Angioplasty	1	0.0	1.1	*	0.0	1.9	*	0.0	2.7	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	9	0.0	1.4	*	0.0	2.4	*	11.1	3.2	*
Hysterectomy	2	0.0	5.8	*	0.0	10.7	*	0.0	14.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	281	6.4	9.7	2.2	11.0	14.0	3.2	12.1	17.6	3.3
CONDITIONS:										
Acute Myocardial Infarction	18	22.2	25.7	*	27.8	28.8	*	27.8	32.1	*
Congestive Heart Failure	17	5.9	18.4	*	5.9	27.9	*	11.8	35.6	*
Pneumonia/Influenza	12	8.3	17.4	*	8.3	23.6	*	8.3	28.2	*
Chronic Obstructive Pulmonary Disease	7	0.0	7.1	*	0.0	12.0	*	0.0	16.2	*
Transient Cerebral Ischemia	5	0.0	1.8	*	0.0	3.6	*	0.0	5.5	*
Stroke	8	50.0	16.4	*	62.5	23.7	*	62.5	28.0	*
Hip Fracture	0									
Sepsis	2	50.0	50.0	*	50.0	57.4	*	50.0	65.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	9	0.0	2.4	*	11.1	4.6	*	11.1	6.1	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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ROGERS CITY HOSPITAL
PRESQUE ISLE EXTENDED CARE FACILITY

555 North Bradley Highway, Rogers City, Michigan 49779-1599
Telephone (517) 734-2151

January 7, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

ATTN: Sandra Kappert

Dear Ms. Kappert:

We are in receipt of the mortality information for Rogers City Hospital, and I have reviewed the data and find that the information provided is consistent with our records.

We do want to point out however, that your data is calculated based on a total of 89 acute care beds. Please be advised that our Hospital has 40 acute care beds and 49 beds are dedicated to long term care including skilled care. The mortality rate for skilled care beds is necessarily higher than would be expected in acute care beds.

We want to inform you of this information so that when you communicate our data to the media, our response is included with the mortality data provided to us.

Additionally, the number of discharges from our facility is relatively low. Therefore, the statistical significance of the numbers can be called into question particularly when the cause of death includes only two or three patients.

If you have further questions concerning our information, please contact me at (517) 734-2151.

Sincerely,

Pamela MacFalda
Administrator

PM/nk

RUSSELL MEMORIAL HOSPITAL

201 N Pine Street
Onaway, MI 49765

Medicare Provider Number: 230163

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	66	6.1	10.7	6.3	12.1	15.0	6.9	15.2	18.4	5.9
CONDITIONS:										
Acute Myocardial Infarction	3	33.3	37.0	*	33.3	40.6	*	33.3	45.1	*
Congestive Heart Failure	2	0.0	12.1	*	0.0	17.5	*	0.0	22.9	*
Pneumonia/Influenza	10	10.0	12.5	*	10.0	16.7	*	10.0	20.4	*
Chronic Obstructive Pulmonary Disease	1	0.0	10.2	*	0.0	14.9	*	0.0	19.3	*
Transient Cerebral Ischemia	1	0.0	1.3	*	100.0	2.9	*	100.0	4.6	*
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1988

Total Beds	17
Ownership/Control	Private, Non-Profit

STAFFING:

Medical Residents/Interns	0
Registered Nurses	8
Licensed Practical Nurses	7

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	No
Hospice	No
Intensive Care Unit	No
Organ Transplant	No
Rehabilitation	No
Shock Trauma	No

**** Not used in calculating hospital mortality rates.**

RUSSELL MEMORIAL HOSPITAL

Medicare Provider Number: 230163

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	102	4.9	9.7	4.6	9.8	14.0	5.1	11.8	17.6	6.3
CONDITIONS:										
Acute Myocardial Infarction	4	50.0	29.8	*	50.0	33.8	*	50.0	37.8	*
Congestive Heart Failure	12	16.7	17.5	*	33.3	25.8	*	33.3	32.8	*
Pneumonia/Influenza	6	0.0	10.5	*	0.0	14.8	*	16.7	18.1	*
Chronic Obstructive Pulmonary Disease	1	0.0	29.7	*	0.0	38.4	*	0.0	45.2	*
Transient Cerebral Ischemia	2	0.0	1.7	*	0.0	3.8	*	0.0	6.2	*
Stroke	0									
Hip Fracture	0									
Sepsis	1	0.0	24.3	*	0.0	33.4	*	0.0	40.4	*
PROCEDURE:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	109	8.3	10.8	4.9	11.0	15.4	6.1	14.7	19.1	6.7
CONDITIONS:										
Acute Myocardial Infarction	3	33.3	25.8	*	33.3	27.9	*	33.3	30.8	*
Congestive Heart Failure	8	25.0	26.9	*	37.5	36.5	*	62.5	43.5	*
Pneumonia/Influenza	11	18.2	15.6	*	27.3	21.5	*	27.3	26.0	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	2	50.0	14.7	*	50.0	20.8	*	50.0	24.8	*
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

SAGINAW GENERAL HOSPITAL

1447 N Harrison Street
Saginaw, MI 48602

Medicare Provider Number: 230122

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,633	9.9	8.9	1.1	14.6	13.8	1.1	18.1	17.7	1.1
CONDITIONS:										
Acute Myocardial Infarction	67	28.4	23.7	10.5	31.3	27.0	10.3	34.3	30.3	10.2
Congestive Heart Failure	84	13.1	14.2	4.4	25.0	22.5	5.3	29.8	29.3	5.8
Pneumonia/Influenza	60	26.7	18.9	6.8	35.0	25.8	9.5	45.0	31.0	10.6
Chronic Obstructive Pulmonary Disease	15	13.3	11.3	*	20.0	18.1	*	20.0	23.5	*
Transient Cerebral Ischemia	45	2.2	2.2	*	6.7	4.9	*	8.9	7.7	*
Stroke	52	28.8	21.0	8.0	30.8	28.9	7.6	36.5	33.8	7.6
Hip Fracture	27	7.4	5.7	*	14.8	10.4	*	18.5	13.6	*
Sepsis	23	34.8	27.0	*	39.1	35.9	*	43.5	42.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	17	0.0	4.0	*	0.0	7.4	*	5.9	10.5	*
Carotid Endarterectomy	2	0.0	1.2	*	0.0	2.0	*	0.0	2.9	*
Hip Replacement/Reconstruction	37	0.0	2.0	*	2.7	3.8	*	5.4	5.2	*
Open Reduction of Hip Fracture	14	14.3	6.0	*	21.4	11.3	*	21.4	14.8	*
Prostatectomy	36	0.0	1.3	*	0.0	3.1	*	0.0	5.2	*
Cholecystectomy	47	4.3	2.7	*	8.5	5.2	*	10.6	7.4	*
Hysterectomy	43	0.0	0.5	*	2.3	1.0	*	2.3	1.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	292
Occupancy Rate	66
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	138
Percent of Physicians Board Certified Specialists	67
Medical Residents/Interns	0
Registered Nurses	293
Licensed Practical Nurses	132

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

SAGINAW GENERAL HOSPITAL

Medicare Provider Number: 230122

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,652	9.0	8.7	0.7	13.8	13.6	0.9	17.2	17.4	1.0
CONDITIONS:										
Acute Myocardial Infarction	48	31.2	26.2	*	37.5	29.6	*	39.6	33.0	*
Congestive Heart Failure	97	18.6	15.9	5.6	27.8	24.3	5.5	33.0	30.9	6.8
Pneumonia/Influenza	60	16.7	15.9	4.9	16.7	21.4	6.2	21.7	25.8	7.1
Chronic Obstructive Pulmonary Disease	25	8.0	8.5	*	16.0	14.1	*	24.0	19.0	*
Transient Cerebral Ischemia	44	4.5	2.0	*	9.1	4.1	*	11.4	6.3	*
Stroke	50	18.0	18.5	*	20.0	25.4	*	30.0	29.9	*
Hip Fracture	36	2.8	6.8	*	5.6	12.4	*	8.3	15.9	*
Sepsis	13	15.4	24.4	*	15.4	32.7	*	15.4	38.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	12	0.0	2.6	*	8.3	4.8	*	8.3	7.1	*
Carotid Endarterectomy	1	0.0	1.1	*	0.0	1.7	*	0.0	2.4	*
Hip Replacement/Reconstruction	40	0.0	2.4	*	0.0	4.7	*	0.0	6.2	*
Open Reduction of Hip Fracture	17	0.0	7.5	*	5.9	14.2	*	11.8	18.6	*
Prostatectomy	26	0.0	1.2	*	3.8	2.8	*	7.7	4.5	*
Cholecystectomy	40	2.5	2.6	*	7.5	5.1	*	7.5	6.9	*
Hysterectomy	39	2.6	0.6	*	2.6	1.4	*	5.1	2.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,623	10.0	8.6	1.4	14.8	13.4	1.6	18.1	17.1	1.5
CONDITIONS:										
Acute Myocardial Infarction	45	35.6	30.5	*	42.2	33.3	*	42.2	36.4	*
Congestive Heart Failure	86	15.1	17.7	6.1	19.8	26.3	8.5	25.6	33.0	10.0
Pneumonia/Influenza	42	14.3	18.7	*	31.0	25.1	*	31.0	30.3	*
Chronic Obstructive Pulmonary Disease	19	15.8	12.2	*	36.8	21.2	*	42.1	27.7	*
Transient Cerebral Ischemia	56	7.1	2.2	2.9	8.9	4.6	3.5	8.9	7.3	4.8
Stroke	55	20.0	19.1	5.9	25.5	26.7	7.1	25.5	31.4	8.1
Hip Fracture	23	0.0	7.6	*	4.3	14.1	*	21.7	18.3	*
Sepsis	4	25.0	25.7	*	25.0	32.7	*	25.0	38.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	16	6.3	2.1	*	12.5	4.9	*	12.5	8.0	*
Carotid Endarterectomy	2	0.0	0.8	*	0.0	1.3	*	0.0	1.8	*
Hip Replacement/Reconstruction	36	0.0	2.2	*	5.6	4.3	*	13.9	5.9	*
Open Reduction of Hip Fracture	10	0.0	8.8	*	0.0	16.2	*	10.0	20.6	*
Prostatectomy	31	0.0	1.6	*	3.2	4.1	*	3.2	6.9	*
Cholecystectomy	38	7.9	3.9	*	7.9	7.1	*	10.5	9.1	*
Hysterectomy	27	0.0	0.8	*	0.0	1.5	*	0.0	2.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

SAGINAW
GENERAL
HOSPITAL

1447 N. Harrison
Saginaw, MI 48602
517-771-4000

January 8, 1991

Attn: Mrs. Sandra Kappert
Health Standards and Quality Bureau
Health Care Financing Administration
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

RE: HCFA Mortality Data

Saginaw General Hospital Comments

The HCFA Mortality Data is useful for identifying differences in mortality among patient populations but does not explain why they are different. The data is not a measure of quality of care.

The Saginaw General Hospital observed mortality rate for All Causes, the 8 conditions, and the 9 procedures listed by HCFA does not differ significantly from the expected rate (national average). All observed mortality rates were within two (2) standard deviations of the expected mortality rate.

When reviewing this type of mortality data it is important to keep in mind the limitations of this data. From this data it is impossible to determine the severity of illness of each individual case, or if the patient was suffering from multiple medical problems.

If a death occurred during the patients hospitalization we cannot determine from these statistics whether the patient requested "no resuscitation or extraordinary procedures". If the death occurred after the hospitalization we are unable to determine what percentage of deaths were in anyway related to the reason the patient was hospitalized.

Another factor affecting a hospitals mortality rates is the type of services available. Regional referral centers treat the more complex, and medically unstable patient, thus potentially increasing the hospitals mortality data. SGH is a referral hospital with a regional dialysis center and a major oncology service. We frequently receive referral patients from surrounding hospitals for further management of a complex diagnosis or worsening medical condition.

Caring for your family for life

VHA.
Member of
Voluntary Hospitals
of America, Inc.

All of these factors must be considered when reviewing a hospitals mortality data. High or low mortality rates do not necessarily indicate poor or excellent quality of care.

Sincerely,

Donald E. Juenemann
President and CEO

MAR/skh

SALINE COMMUNITY HOSPITAL

400 Russell St
Saline, MI 48176

Medicare Provider Number: 230212

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	516	8.1	9.4	1.7	12.4	14.1	2.4	15.5	17.9	2.3
CONDITIONS:										
Acute Myocardial Infarction	11	9.1	30.3	*	9.1	33.8	*	9.1	37.2	*
Congestive Heart Failure	41	4.9	13.3	*	22.0	20.7	*	29.3	27.0	*
Pneumonia/Influenza	25	20.0	17.4	*	20.0	23.5	*	24.0	28.4	*
Chronic Obstructive Pulmonary Disease	11	9.1	10.1	*	9.1	15.9	*	9.1	20.8	*
Transient Cerebral Ischemia	6	0.0	1.6	*	0.0	3.6	*	0.0	5.7	*
Stroke	8	12.5	17.3	*	12.5	24.2	*	12.5	28.5	*
Hip Fracture	17	5.9	6.4	*	11.8	11.6	*	17.6	15.0	*
Sepsis	8	25.0	31.3	*	37.5	38.2	*	37.5	45.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	7	0.0	2.2	*	0.0	4.3	*	0.0	6.0	*
Open Reduction of Hip Fracture	11	9.1	6.2	*	18.2	11.7	*	27.3	15.3	*
Prostatectomy	29	0.0	0.7	*	0.0	1.8	*	3.4	3.3	*
Cholecystectomy	9	0.0	1.3	*	0.0	2.5	*	0.0	3.6	*
Hysterectomy	4	0.0	0.1	*	0.0	0.2	*	0.0	0.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	64
Occupancy Rate	55
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	65
Percent of Physicians Board Certified Specialists	80
Medical Residents/Interns	0
Registered Nurses	65
Licensed Practical Nurses	6

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

SALINE COMMUNITY HOSPITAL

Medicare Provider Number: 230212

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	520	10.8	9.5	2.4	16.0	14.4	3.1	20.2	18.2	3.0
CONDITIONS:										
Acute Myocardial Infarction	18	33.3	25.0	*	33.3	28.6	*	38.9	32.0	*
Congestive Heart Failure	36	16.7	18.3	*	27.8	27.7	*	30.6	34.8	*
Pneumonia/Influenza	33	18.2	17.4	*	27.3	23.5	*	30.3	28.1	*
Chronic Obstructive Pulmonary Disease	10	20.0	12.9	*	20.0	21.6	*	20.0	27.8	*
Transient Cerebral Ischemia	4	0.0	1.7	*	0.0	3.8	*	25.0	6.0	*
Stroke	15	20.0	18.1	*	26.7	25.9	*	46.7	30.7	*
Hip Fracture	14	14.3	5.6	*	14.3	10.3	*	14.3	13.5	*
Sepsis	11	45.5	33.5	*	63.6	39.8	*	63.6	45.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	20.0	3.7	*	20.0	6.9	*	20.0	8.8	*
Open Reduction of Hip Fracture	9	11.1	4.7	*	11.1	9.2	*	11.1	12.3	*
Prostatectomy	20	0.0	0.6	*	0.0	1.5	*	0.0	2.5	*
Cholecystectomy	6	0.0	0.8	*	0.0	1.4	*	0.0	1.9	*
Hysterectomy	6	0.0	0.2	*	0.0	0.3	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	439	6.8	8.9	2.1	12.1	13.8	2.7	16.2	17.9	2.4
CONDITIONS:										
Acute Myocardial Infarction	10	10.0	25.7	*	10.0	29.4	*	20.0	33.3	*
Congestive Heart Failure	30	10.0	16.4	*	20.0	24.4	*	30.0	31.1	*
Pneumonia/Influenza	20	5.0	15.5	*	15.0	21.3	*	25.0	26.1	*
Chronic Obstructive Pulmonary Disease	13	0.0	13.5	*	0.0	23.1	*	15.4	29.9	*
Transient Cerebral Ischemia	3	0.0	1.6	*	33.3	3.3	*	33.3	5.3	*
Stroke	11	18.2	22.0	*	18.2	29.0	*	18.2	33.5	*
Hip Fracture	15	0.0	8.2	*	6.7	15.6	*	13.3	20.6	*
Sepsis	4	50.0	29.1	*	75.0	33.7	*	75.0	39.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	5.2	*	0.0	11.0	*	0.0	15.7	*
Open Reduction of Hip Fracture	12	0.0	7.2	*	8.3	14.2	*	16.7	19.0	*
Prostatectomy	25	8.0	1.1	*	8.0	3.1	*	16.0	5.5	*
Cholecystectomy	8	0.0	1.3	*	0.0	2.2	*	0.0	2.8	*
Hysterectomy	7	0.0	0.8	*	0.0	1.6	*	0.0	2.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

523.1

SALINE
COMMUNITY
HOSPITAL

400 West Russell Saline, Michigan 48176
313 429-1500
FAX 313 429-3408

January 11, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Hospital Provider Number: 230212

Dear Mrs. Kappert:
Saline Community Hospital has received the statistics compiled by the Health Care Financing Administration related to the mortality rates of Medicare patients. The hospital administration and medical staff appreciate the opportunity to review information which complements our current system of evaluating quality care.

Data Review:

In reviewing this data, several comments are appropriate:

1. Saline Community Hospital's observed mortality rates for ALL CAUSES for Fiscal Year 1989 and Fiscal Year 1987 across the three different time frames were less in every category than the predicted rate.

2. Saline Community Hospital's observed mortality rates for ALL CAUSES for Fiscal Year 1988 across the three different time frames were within one standard deviation of the predicted rates, suggesting the difference between the observed rates and expected rates is likely to be the result of random variation and, therefore, not likely to be meaningful.

3. The number of cases found under the CONDITIONS range from a low of three to a high of 36 for all three fiscal years. Based on Health Care Financing Administration's own statement, the precision and interpretability of the estimates are questionable when there are no deaths or 50 or so fewer cases in a particular category being analyzed.

Even though this is the case, a review was undertaken of Fiscal Year 1989 pneumonia/influenza deaths, the only category where the observed rate was higher than the predicted rate in the 30-day category. Our initial findings were:

a) All these patients were noted as "no code" in the patient record.

b) The average age of the patients was 81 years.

c) All patients had two or more comorbid conditions.

These charts will be forwarded to the appropriate medical staff review committee for final analysis regarding the quality of care.

4. The number of cases found under the PROCEDURES ranged from four to 29 for all three fiscal years. Based on Health Care Financing Administration's own statement, the precision and interpretability of the estimates are questionable when there are no deaths or 50 or fewer cases in a particular category being analyzed.

Saline Community Hospital views this data as valuable input into our existing quality assurance program. The health care system is being increasingly held accountable for both a high standard of quality and reasonableness of costs. Saline Community Hospital's goal is to be responsible first to the patient while keeping the needs of the payor in mind.

Sincerely,

William J. Lavery
Administrator

WJL/

SAMARITAN HEALTH CENTER

5555 Conner Avenue
Detroit, MI 48213

Medicare Provider Number: 230147

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	763	7.5	8.8	1.3	13.9	13.4	1.4	16.8	17.0	1.4
CONDITIONS:										
Acute Myocardial Infarction	8	12.5	23.7	*	12.5	27.5	*	12.5	30.8	*
Congestive Heart Failure	55	3.6	12.6	5.6	7.3	20.1	7.6	10.9	26.6	8.6
Pneumonia/Influenza	29	17.2	15.9	*	20.7	21.6	*	20.7	26.1	*
Chronic Obstructive Pulmonary Disease	7	14.3	13.7	*	28.6	19.8	*	28.6	24.8	*
Transient Cerebral Ischemia	12	8.3	1.7	*	8.3	3.9	*	8.3	6.4	*
Stroke	51	13.7	14.8	5.2	25.5	21.3	7.0	27.5	25.3	6.4
Hip Fracture	11	0.0	7.0	*	27.3	12.3	*	27.3	15.9	*
Sepsis	12	8.3	31.2	*	25.0	42.7	*	33.3	50.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	0.0	3.5	*	0.0	6.5	*	0.0	9.5	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	0.0	5.9	*	20.0	11.4	*	20.0	15.4	*
Open Reduction of Hip Fracture	7	0.0	6.0	*	14.3	10.4	*	14.3	13.2	*
Prostatectomy	15	0.0	1.2	*	0.0	3.0	*	0.0	4.9	*
Cholecystectomy	7	0.0	2.8	*	0.0	5.0	*	0.0	6.5	*
Hysterectomy	1	0.0	0.4	*	0.0	1.0	*	0.0	1.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	616
Occupancy Rate	76
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	271
Percent of Physicians Board Certified Specialists	70
Medical Residents/Interns	102
Registered Nurses	647
Licensed Practical Nurses	68

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	Yes
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	Yes

**** Not used in calculating hospital mortality rates.**

SAMARITAN HEALTH CENTER

Medicare Provider Number: 230147

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	738	11.4	12.4	1.7	17.3	18.2	1.5	22.0	22.8	1.7
CONDITIONS:										
Acute Myocardial Infarction	24	16.7	27.5	*	33.3	30.4	*	33.3	33.6	*
Congestive Heart Failure	49	6.1	15.2	*	16.3	23.3	*	22.4	30.0	*
Pneumonia/Influenza	12	16.7	20.1	*	25.0	26.6	*	41.7	31.7	*
Chronic Obstructive Pulmonary Disease	18	11.1	11.6	*	16.7	18.7	*	22.2	24.6	*
Transient Cerebral Ischemia	12	16.7	3.0	*	25.0	6.6	*	41.7	10.3	*
Stroke	53	17.0	19.4	7.5	22.6	26.6	7.4	30.2	31.2	6.4
Hip Fracture	21	4.8	5.3	*	14.3	9.8	*	23.8	12.8	*
Sepsis	18	27.8	37.2	*	44.4	48.1	*	55.6	55.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	0.0	6.0	*	0.0	11.5	*	33.3	16.6	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	10	0.0	4.7	*	10.0	8.9	*	10.0	11.7	*
Open Reduction of Hip Fracture	17	5.9	4.6	*	17.6	9.0	*	29.4	11.9	*
Prostatectomy	25	4.0	1.9	*	8.0	4.8	*	8.0	8.1	*
Cholecystectomy	4	0.0	4.4	*	0.0	6.2	*	0.0	7.1	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	827	9.9	10.5	1.1	17.0	15.8	1.4	23.0	20.0	1.7
CONDITIONS:										
Acute Myocardial Infarction	13	15.4	33.4	*	30.8	37.1	*	30.8	40.8	*
Congestive Heart Failure	56	14.3	16.7	7.6	21.4	25.8	7.1	32.1	33.1	6.4
Pneumonia/Influenza	18	16.7	17.0	*	16.7	23.9	*	22.2	29.4	*
Chronic Obstructive Pulmonary Disease	29	20.7	12.4	*	27.6	20.6	*	34.5	26.5	*
Transient Cerebral Ischemia	20	0.0	2.0	*	0.0	4.3	*	5.0	6.7	*
Stroke	52	17.3	17.7	5.3	30.8	24.6	6.8	38.5	29.1	7.8
Hip Fracture	11	0.0	7.8	*	0.0	13.4	*	9.1	16.7	*
Sepsis	19	31.6	36.1	*	42.1	43.2	*	47.4	49.1	*
PROCEDURES:										
Angioplasty	1	0.0	1.2	*	0.0	1.5	*	0.0	2.0	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	0.0	6.1	*	28.6	14.3	*	28.6	22.4	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	7	0.0	4.9	*	0.0	8.8	*	14.3	11.3	*
Open Reduction of Hip Fracture	8	0.0	7.3	*	0.0	13.3	*	12.5	16.7	*
Prostatectomy	29	3.4	1.3	*	3.4	3.1	*	6.9	5.2	*
Cholecystectomy	5	0.0	2.4	*	0.0	3.4	*	0.0	4.2	*
Hysterectomy	2	0.0	0.4	*	0.0	0.7	*	0.0	1.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

SARATOGA GENERAL HOSPITAL

15000 Gratiot Avenue
Detroit, MI 48205

Medicare Provider Number: 230063

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,591	10.8	9.6	1.0	17.0	14.5	1.4	20.5	18.3	1.5
CONDITIONS:										
Acute Myocardial Infarction	53	34.0	28.0	8.6	39.6	31.4	8.8	39.6	34.7	7.7
Congestive Heart Failure	153	20.3	14.9	5.0	30.7	23.0	5.1	37.3	29.6	5.5
Pneumonia/Influenza	57	10.5	14.4	6.9	17.5	19.5	5.5	24.6	23.7	6.3
Chronic Obstructive Pulmonary Disease	31	6.5	14.4	*	6.5	20.2	*	6.5	25.2	*
Transient Cerebral Ischemia	48	0.0	1.7	*	4.2	3.6	*	6.3	5.8	*
Stroke	72	30.6	21.7	7.1	37.5	28.4	8.8	41.7	32.7	8.4
Hip Fracture	27	7.4	7.0	*	18.5	12.4	*	22.2	16.0	*
Sepsis	9	33.3	27.4	*	44.4	35.1	*	55.6	40.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	11	9.1	5.6	*	18.2	9.8	*	18.2	13.2	*
Carotid Endarterectomy	11	0.0	1.5	*	9.1	2.7	*	9.1	4.0	*
Hip Replacement/Reconstruction	24	8.3	4.2	*	16.7	7.8	*	16.7	10.3	*
Open Reduction of Hip Fracture	11	0.0	7.1	*	18.2	13.2	*	27.3	17.0	*
Prostatectomy	64	0.0	0.5	1.0	0.0	1.2	1.8	1.6	2.0	1.8
Cholecystectomy	38	2.6	1.9	*	7.9	3.4	*	7.9	4.6	*
Hysterectomy	7	0.0	0.6	*	0.0	1.3	*	0.0	2.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	200
Occupancy Rate	72
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	134
Percent of Physicians Board Certified Specialists	53
Medical Residents/Interns	0
Registered Nurses	122
Licensed Practical Nurses	36

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

SARATOGA GENERAL HOSPITAL

Medicare Provider Number: 230063

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	1,723	12.0	9.7	0.9	18.9	14.8	1.3	22.6	18.7	1.2
CONDITIONS:										
Acute Myocardial Infarction	47	27.7	28.3	*	34.0	31.3	*	38.3	34.7	*
Congestive Heart Failure	123	17.9	15.5	4.1	25.2	23.6	4.1	30.1	30.3	4.5
Pneumonia/Influenza	64	18.8	18.4	7.2	31.3	24.8	9.5	32.8	29.6	7.9
Chronic Obstructive Pulmonary Disease	23	4.3	16.5	*	21.7	25.5	*	30.4	31.9	*
Transient Cerebral Ischemia	58	5.2	2.1	*	5.2	4.6	*	5.2	7.2	*
Stroke	79	29.1	23.6	6.6	40.5	31.5	9.1	45.6	36.4	9.6
Hip Fracture	32	12.5	6.7	*	21.9	12.1	*	25.0	15.6	*
Sepsis	7	14.3	29.3	*	28.6	39.7	*	28.6	45.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	16	18.8	8.9	*	31.3	14.5	*	31.3	18.6	*
Carotid Endarterectomy	20	15.0	1.2	*	25.0	2.2	*	25.0	3.1	*
Hip Replacement/Reconstruction	20	0.0	3.8	*	0.0	7.4	*	0.0	10.1	*
Open Reduction of Hip Fracture	19	10.5	5.7	*	26.3	11.0	*	31.6	14.5	*
Prostatectomy	64	3.1	0.8	2.4	4.7	1.9	3.7	6.3	3.1	4.7
Cholecystectomy	37	8.1	3.0	*	10.8	5.7	*	10.8	7.6	*
Hysterectomy	5	0.0	0.7	*	0.0	1.4	*	0.0	2.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	1,493	12.1	10.4	1.0	17.9	15.4	1.3	21.8	19.3	1.5
CONDITIONS:										
Acute Myocardial Infarction	50	16.0	28.7	*	16.0	31.9	*	18.0	35.2	*
Congestive Heart Failure	115	22.6	18.7	4.2	36.5	27.5	6.2	40.0	34.8	5.2
Pneumonia/Influenza	59	22.0	17.5	6.3	33.9	23.1	9.4	35.6	27.8	8.9
Chronic Obstructive Pulmonary Disease	29	6.9	12.7	*	10.3	20.1	*	24.1	25.6	*
Transient Cerebral Ischemia	39	2.6	1.7	*	2.6	3.6	*	7.7	5.7	*
Stroke	86	18.6	19.7	5.4	31.4	27.1	8.8	36.0	31.6	8.6
Hip Fracture	37	18.9	7.9	*	24.3	13.6	*	27.0	17.1	*
Sepsis	10	50.0	34.7	*	50.0	46.9	*	60.0	54.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	17	5.9	7.0	*	5.9	12.3	*	17.6	17.0	*
Carotid Endarterectomy	8	0.0	1.6	*	0.0	3.0	*	0.0	4.4	*
Hip Replacement/Reconstruction	16	6.3	3.6	*	12.5	6.5	*	12.5	8.3	*
Open Reduction of Hip Fracture	22	18.2	6.5	*	22.7	11.7	*	27.3	15.0	*
Prostatectomy	62	4.8	0.9	2.8	4.8	2.1	3.2	6.5	3.4	3.8
Cholecystectomy	32	0.0	3.1	*	3.1	5.2	*	6.3	6.6	*
Hysterectomy	5	0.0	0.7	*	0.0	1.4	*	0.0	2.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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SARATOGA
COMMUNITY HOSPITAL

15000 Gratiot Avenue
Detroit, Michigan 48205-1999
(313) 245-1200

January 11, 1990

Ms. Sandra Kappert
Health Standards & Quality Bureau
HCFA
2-D-2 Meadows East Bldg.
6325 Security Blvd.
Baltimore, Maryland 21207

Dear Ms. Kappert:

We would like to thank the Health Care Financing Administration (HCFA) for providing the annual report on Medicare Hospital Mortality Rates. Since the report includes data that is not normally accessible to us, it provides an additional tool for us to use in our ongoing quality assurance program at Saratoga Community Hospital.

We utilize data from a variety of sources to continuously improve the quality of patient care throughout the hospital. A multidisciplinary, quality assurance committee monitors, assesses, and conducts focused research in all areas relating to patient care. All mortalities which occur in our hospital are routinely reviewed. This process ensures that barriers which impact patient care are identified and eliminated.

In reviewing the data, we would like to note that emergency admissions, rather than direct or elective admissions, account for 70% of Saratoga's Medicare in-patient volume. This unique situation indicates a higher than average acuity for patients in our hospital.

We appreciate HCFA's continuing efforts to refine the data so that it is more useful to hospitals in evaluating and improving the quality of patient care.

Sincerely,

Michael Breen

MICHAEL F. BREEN
Executive Director

MFB:nb

SCHEURER HOSPITAL

170 North Caseville Rd
Pigeon, MI 48755

Medicare Provider Number: 230201

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	203	4.4	8.5	3.0	7.4	12.9	3.2	10.8	16.5	3.2
CONDITIONS:										
Acute Myocardial Infarction	1	0.0	29.5	*	100.0	32.3	*	100.0	35.5	*
Congestive Heart Failure	18	22.2	15.1	*	27.8	23.5	*	44.4	30.6	*
Pneumonia/Influenza	28	3.6	17.1	*	7.1	22.7	*	14.3	27.1	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	3	0.0	2.1	*	0.0	4.6	*	0.0	7.4	*
Stroke	3	33.3	30.6	*	33.3	36.2	*	33.3	40.7	*
Hip Fracture	0									
Sepsis	1	0.0	38.6	*	0.0	44.5	*	0.0	51.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	23	0.0	0.8	*	0.0	1.7	*	0.0	2.9	*
Cholecystectomy	9	0.0	1.6	*	0.0	2.7	*	0.0	3.5	*
Hysterectomy	5	0.0	0.8	*	0.0	1.1	*	0.0	1.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	47
Occupancy Rate	55
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	7
Percent of Physicians Board Certified Specialists	86
Medical Residents/Interns	0
Registered Nurses	13
Licensed Practical Nurses	9

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

SCHEURER HOSPITAL

Medicare Provider Number: 230201

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	214	7.0	9.1	2.7	8.9	13.9	3.7	12.6	17.8	4.2
CONDITIONS:										
Acute Myocardial Infarction	6	0.0	24.9	*	0.0	28.6	*	0.0	32.3	*
Congestive Heart Failure	13	15.4	18.5	*	15.4	27.6	*	38.5	34.9	*
Pneumonia/Influenza	15	20.0	20.1	*	26.7	25.9	*	26.7	30.3	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	5	0.0	2.7	*	0.0	5.6	*	0.0	8.8	*
Stroke	2	50.0	44.7	*	50.0	61.6	*	50.0	70.1	*
Hip Fracture	0									
Sepsis	2	0.0	25.0	*	0.0	32.6	*	0.0	38.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	16	0.0	0.9	*	0.0	2.0	*	0.0	3.4	*
Cholecystectomy	6	0.0	5.3	*	16.7	10.8	*	16.7	15.0	*
Hysterectomy	6	0.0	1.7	*	0.0	3.6	*	0.0	5.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	275	5.5	7.5	2.6	10.2	11.3	3.5	11.3	14.6	4.2
CONDITIONS:										
Acute Myocardial Infarction	9	11.1	27.3	*	22.2	31.0	*	22.2	34.6	*
Congestive Heart Failure	14	21.4	15.2	*	42.9	22.9	*	42.9	29.5	*
Pneumonia/Influenza	23	4.3	15.1	*	13.0	20.6	*	13.0	25.1	*
Chronic Obstructive Pulmonary Disease	5	0.0	11.0	*	0.0	16.2	*	0.0	20.6	*
Transient Cerebral Ischemia	9	0.0	1.8	*	11.1	3.9	*	11.1	6.2	*
Stroke	6	33.3	17.2	*	33.3	23.3	*	66.7	27.8	*
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	15	0.0	1.1	*	0.0	2.8	*	0.0	4.7	*
Cholecystectomy	10	0.0	2.0	*	0.0	3.1	*	0.0	4.0	*
Hysterectomy	3	0.0	0.4	*	0.0	0.7	*	0.0	0.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

SCHOOLCRAFT MEMORIAL HOSPITAL

500 Main St
Manistique, MI 49854

Medicare Provider Number: 230115

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	260	8.8	9.2	2.0	13.5	13.6	2.1	14.6	17.2	2.7
CONDITIONS:										
Acute Myocardial Infarction	14	35.7	27.4	*	35.7	31.2	*	35.7	35.1	*
Congestive Heart Failure	22	13.6	15.4	*	22.7	23.6	*	27.3	30.7	*
Pneumonia/Influenza	15	13.3	17.5	*	13.3	23.3	*	13.3	27.7	*
Chronic Obstructive Pulmonary Disease	7	0.0	7.1	*	14.3	11.8	*	14.3	15.7	*
Transient Cerebral Ischemia	4	0.0	1.8	*	0.0	3.9	*	0.0	6.1	*
Stroke	8	37.5	27.2	*	50.0	34.4	*	50.0	39.1	*
Hip Fracture	1	0.0	6.0	*	0.0	10.9	*	0.0	14.3	*
Sepsis	1	0.0	18.9	*	0.0	23.7	*	0.0	28.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	11	0.0	0.8	*	0.0	1.3	*	0.0	1.8	*
Hysterectomy	1	0.0	1.0	*	0.0	2.8	*	0.0	5.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	47
Occupancy Rate	21
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	6
Percent of Physicians Board Certified Specialists	100
Medical Residents/Interns	0
Registered Nurses	17
Licensed Practical Nurses	14

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

SCHOOLCRAFT MEMORIAL HOSPITAL

Medicare Provider Number: 230115

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	311	6.8	8.5	2.3	12.5	12.8	2.2	16.1	16.2	2.3
CONDITIONS:										
Acute Myocardial Infarction	18	22.2	26.3	*	33.3	30.0	*	33.3	33.5	*
Congestive Heart Failure	18	5.6	21.1	*	16.7	32.4	*	27.8	40.7	*
Pneumonia/Influenza	10	20.0	14.3	*	20.0	19.4	*	20.0	23.6	*
Chronic Obstructive Pulmonary Disease	9	22.2	12.2	*	22.2	20.5	*	33.3	27.7	*
Transient Cerebral Ischemia	7	0.0	1.6	*	0.0	3.5	*	0.0	5.6	*
Stroke	8	25.0	21.9	*	50.0	29.5	*	50.0	34.5	*
Hip Fracture	1	0.0	3.2	*	0.0	5.9	*	0.0	8.4	*
Sepsis	2	0.0	21.8	*	50.0	28.1	*	50.0	32.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	11	0.0	3.0	*	0.0	5.0	*	0.0	6.2	*
Hysterectomy	3	0.0	0.6	*	0.0	1.1	*	0.0	1.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	284	10.6	10.3	1.8	13.7	14.5	2.3	15.1	18.1	2.8
CONDITIONS:										
Acute Myocardial Infarction	17	23.5	27.3	*	23.5	30.2	*	23.5	33.3	*
Congestive Heart Failure	16	25.0	14.9	*	25.0	23.2	*	25.0	30.3	*
Pneumonia/Influenza	20	10.0	13.5	*	10.0	18.5	*	10.0	22.8	*
Chronic Obstructive Pulmonary Disease	9	11.1	7.4	*	11.1	13.5	*	11.1	18.7	*
Transient Cerebral Ischemia	5	0.0	1.9	*	0.0	4.0	*	0.0	6.5	*
Stroke	10	20.0	23.5	*	30.0	29.4	*	30.0	33.8	*
Hip Fracture	8	25.0	7.3	*	25.0	12.6	*	25.0	16.0	*
Sepsis	2	0.0	34.8	*	0.0	39.3	*	0.0	44.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	40.0	6.3	*	40.0	11.4	*	40.0	14.5	*
Open Reduction of Hip Fracture	2	0.0	5.8	*	0.0	9.9	*	0.0	12.3	*
Prostatectomy	0									
Cholecystectomy	5	0.0	1.7	*	0.0	3.0	*	0.0	3.9	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

SEAWAY HOSPITAL

5450 Fort Street
Trenton, MI 48183

Medicare Provider Number: 230176

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	913	12.4	10.0	1.6	17.2	15.1	2.0	21.1	19.1	2.1
CONDITIONS:										
Acute Myocardial Infarction	30	30.0	26.4	*	36.7	29.6	*	36.7	33.0	*
Congestive Heart Failure	45	11.1	16.8	*	24.4	26.2	*	35.6	33.7	*
Pneumonia/Influenza	37	21.6	17.8	*	27.0	24.6	*	35.1	29.7	*
Chronic Obstructive Pulmonary Disease	8	0.0	9.0	*	0.0	14.2	*	0.0	18.6	*
Transient Cerebral Ischemia	18	5.6	2.1	*	5.6	4.5	*	11.1	7.1	*
Stroke	37	29.7	17.4	*	35.1	24.3	*	37.8	28.7	*
Hip Fracture	30	6.7	7.1	*	16.7	12.4	*	20.0	15.9	*
Sepsis	29	34.5	28.9	*	41.4	37.2	*	51.7	43.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	9	22.2	7.8	*	22.2	12.1	*	33.3	15.4	*
Carotid Endarterectomy	10	0.0	1.2	*	0.0	2.3	*	0.0	3.4	*
Hip Replacement/Reconstruction	13	15.4	5.0	*	23.1	9.5	*	30.8	12.9	*
Open Reduction of Hip Fracture	15	0.0	7.0	*	13.3	12.6	*	13.3	16.2	*
Prostatectomy	15	0.0	0.4	*	0.0	1.0	*	0.0	1.8	*
Cholecystectomy	23	0.0	2.3	*	0.0	3.8	*	4.3	4.7	*
Hysterectomy	3	0.0	0.3	*	0.0	0.6	*	0.0	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	158
Occupancy Rate	34
Ownership/Control	District/Authority

STAFFING: (As of September 30, 1989)

Total Number of Physicians	116
Percent of Physicians Board Certified Specialists	58
Medical Residents/Interns	0
Registered Nurses	96
Licensed Practical Nurses	15

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

SEAWAY HOSPITAL

Medicare Provider Number: 230176

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	866	12.4	10.7	1.5	18.1	15.9	2.0	22.2	19.9	2.2
CONDITIONS:										
Acute Myocardial Infarction	30	36.7	30.2	*	43.3	33.0	*	43.3	36.2	*
Congestive Heart Failure	59	20.3	18.0	6.1	27.1	27.0	6.1	28.8	34.2	8.1
Pneumonia/Influenza	36	25.0	19.5	*	33.3	25.9	*	44.4	30.8	*
Chronic Obstructive Pulmonary Disease	22	13.6	11.5	*	22.7	18.4	*	36.4	24.4	*
Transient Cerebral Ischemia	17	0.0	2.9	*	5.9	6.9	*	5.9	11.2	*
Stroke	43	27.9	18.9	*	39.5	26.6	*	46.5	31.5	*
Hip Fracture	15	0.0	8.0	*	13.3	14.5	*	20.0	18.6	*
Sepsis	22	13.6	24.5	*	27.3	33.6	*	31.8	40.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	4.7	*	0.0	10.4	*	0.0	15.0	*
Carotid Endarterectomy	3	0.0	1.6	*	0.0	2.9	*	0.0	4.1	*
Hip Replacement/Reconstruction	9	0.0	8.2	*	11.1	16.1	*	22.2	21.6	*
Open Reduction of Hip Fracture	6	0.0	8.5	*	16.7	16.9	*	16.7	22.7	*
Prostatectomy	27	0.0	0.5	*	0.0	1.0	*	0.0	1.6	*
Cholecystectomy	15	6.7	3.6	*	6.7	7.1	*	6.7	9.8	*
Hysterectomy	4	0.0	0.3	*	0.0	0.5	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	802	12.2	9.4	1.4	18.6	14.2	2.3	20.3	18.0	1.5
CONDITIONS:										
Acute Myocardial Infarction	30	40.0	31.2	*	40.0	34.5	*	40.0	38.0	*
Congestive Heart Failure	46	15.2	16.3	*	28.3	24.6	*	32.6	31.6	*
Pneumonia/Influenza	20	5.0	18.6	*	15.0	24.9	*	15.0	29.8	*
Chronic Obstructive Pulmonary Disease	16	18.8	10.7	*	31.3	17.9	*	31.3	23.3	*
Transient Cerebral Ischemia	15	13.3	2.7	*	26.7	6.0	*	26.7	9.5	*
Stroke	36	33.3	20.2	*	33.3	27.5	*	33.3	32.0	*
Hip Fracture	18	0.0	5.6	*	11.1	10.5	*	16.7	14.0	*
Sepsis	9	33.3	24.8	*	44.4	32.3	*	44.4	38.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	4.7	*	25.0	10.4	*	25.0	15.6	*
Carotid Endarterectomy	5	0.0	2.0	*	0.0	3.6	*	0.0	5.0	*
Hip Replacement/Reconstruction	6	0.0	3.0	*	16.7	6.0	*	16.7	8.2	*
Open Reduction of Hip Fracture	10	0.0	5.2	*	10.0	9.9	*	20.0	13.1	*
Prostatectomy	23	0.0	0.7	*	0.0	1.6	*	0.0	2.7	*
Cholecystectomy	15	0.0	2.2	*	0.0	4.1	*	0.0	5.2	*
Hysterectomy	3	0.0	0.3	*	0.0	0.5	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

SHERIDAN COMMUNITY HOSPITAL

301 N Main Street
Sheridan, MI 48884

Medicare Provider Number: 230178

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	169	8.3	9.8	3.2	10.7	14.3	3.1	16.6	17.8	3.0
CONDITIONS:										
Acute Myocardial Infarction	8	0.0	23.2	*	0.0	26.7	*	12.5	29.9	*
Congestive Heart Failure	15	26.7	15.9	*	33.3	24.0	*	40.0	30.7	*
Pneumonia/Influenza	22	4.5	12.0	*	13.6	16.6	*	27.3	20.2	*
Chronic Obstructive Pulmonary Disease	5	0.0	4.3	*	0.0	9.2	*	0.0	13.5	*
Transient Cerebral Ischemia	4	0.0	1.5	*	0.0	3.0	*	25.0	4.7	*
Stroke	7	28.6	38.4	*	28.6	48.1	*	28.6	52.3	*
Hip Fracture	1	0.0	2.9	*	0.0	6.4	*	0.0	9.4	*
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	2.7	*	0.0	6.1	*	0.0	9.1	*
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	6	0.0	1.4	*	0.0	2.4	*	0.0	3.0	*
Hysterectomy	3	0.0	0.6	*	0.0	1.2	*	0.0	1.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	42
Occupancy Rate	19
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	11
Percent of Physicians Board Certified Specialists	27
Medical Residents/Interns	0
Registered Nurses	15
Licensed Practical Nurses	17

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

SHERIDAN COMMUNITY HOSPITAL

Medicare Provider Number: 230178

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	165	12.7	10.3	4.0	18.8	15.2	4.6	21.2	19.1	3.6
CONDITIONS:										
Acute Myocardial Infarction	7	0.0	30.6	*	14.3	35.6	*	14.3	39.8	*
Congestive Heart Failure	7	14.3	13.5	*	14.3	19.3	*	14.3	24.9	*
Pneumonia/Influenza	23	21.7	14.6	*	26.1	19.3	*	26.1	23.1	*
Chronic Obstructive Pulmonary Disease	2	0.0	5.5	*	0.0	10.4	*	0.0	14.4	*
Transient Cerebral Ischemia	1	100.0	3.6	*	100.0	9.8	*	100.0	17.1	*
Stroke	6	50.0	26.1	*	50.0	36.0	*	66.7	41.7	*
Hip Fracture	5	20.0	6.6	*	80.0	12.3	*	80.0	16.0	*
Sepsis	3	0.0	26.6	*	0.0	34.4	*	0.0	40.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	5.1	*	50.0	10.4	*	50.0	14.2	*
Open Reduction of Hip Fracture	2	50.0	7.0	*	100.0	13.0	*	100.0	16.8	*
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	174	9.2	11.4	3.1	13.8	16.6	4.5	16.7	20.6	4.6
CONDITIONS:										
Acute Myocardial Infarction	2	100.0	30.2	*	100.0	32.4	*	100.0	35.1	*
Congestive Heart Failure	10	0.0	14.2	*	20.0	19.8	*	30.0	25.3	*
Pneumonia/Influenza	24	16.7	13.8	*	16.7	19.1	*	20.8	23.3	*
Chronic Obstructive Pulmonary Disease	5	0.0	6.8	*	0.0	13.5	*	0.0	19.8	*
Transient Cerebral Ischemia	2	0.0	1.7	*	0.0	3.0	*	0.0	4.3	*
Stroke	4	50.0	37.4	*	50.0	48.5	*	50.0	54.9	*
Hip Fracture	3	0.0	3.3	*	0.0	6.2	*	0.0	8.3	*
Sepsis	1	0.0	48.3	*	0.0	53.1	*	0.0	58.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	3.1	*	0.0	6.0	*	0.0	8.3	*
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	2	0.0	1.1	*	0.0	2.2	*	0.0	3.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

SINAI HOSPITAL

6767 W Outer Drive
Detroit, MI 48235

Medicare Provider Number: 230024

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,419	8.2	9.7	0.7	13.9	14.8	0.9	17.1	18.7	0.9
CONDITIONS:										
Acute Myocardial Infarction	106	21.7	24.6	6.0	25.5	28.6	7.0	28.3	32.2	6.6
Congestive Heart Failure	150	10.0	14.9	4.5	19.3	23.2	4.5	24.7	30.1	4.7
Pneumonia/Influenza	99	21.2	17.6	6.0	26.3	23.8	6.6	32.3	28.7	8.4
Chronic Obstructive Pulmonary Disease	39	12.8	10.8	*	20.5	17.7	*	23.1	23.4	*
Transient Cerebral Ischemia	29	0.0	1.7	*	0.0	3.8	*	0.0	6.1	*
Stroke	125	11.2	17.8	5.3	19.2	24.8	5.4	21.6	29.1	6.4
Hip Fracture	42	14.3	8.5	*	26.2	15.0	*	33.3	19.4	*
Sepsis	90	26.7	32.4	6.3	38.9	42.7	5.9	44.4	49.5	6.2
PROCEDURES:										
Angioplasty	66	4.5	4.2	2.6	4.5	5.2	3.0	6.1	6.4	3.1
Coronary Artery Bypass Graft	171	5.3	4.8	1.8	7.6	7.3	2.5	7.6	8.8	2.7
Initial Pacemaker Insertion	30	0.0	1.9	*	3.3	4.2	*	3.3	6.6	*
Carotid Endarterectomy	3	0.0	1.6	*	0.0	3.2	*	0.0	4.8	*
Hip Replacement/Reconstruction	46	10.9	2.6	*	13.0	4.8	*	13.0	6.5	*
Open Reduction of Hip Fracture	20	15.0	9.4	*	30.0	17.0	*	45.0	21.9	*
Prostatectomy	97	0.0	0.8	*	0.0	2.0	*	0.0	3.3	*
Cholecystectomy	49	2.0	2.5	*	2.0	4.4	*	2.0	5.7	*
Hysterectomy	38	0.0	0.2	*	0.0	0.5	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	493
Occupancy Rate	71
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	610
Percent of Physicians Board Certified Specialists	73
Medical Residents/Interns	150
Registered Nurses	395
Licensed Practical Nurses	71

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

SINAI HOSPITAL

Medicare Provider Number: 230024

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,507	7.7	9.3	0.8	13.4	14.4	0.7	17.6	18.3	0.7
CONDITIONS:										
Acute Myocardial Infarction	91	20.9	22.9	5.2	24.2	26.4	6.3	27.5	29.8	6.9
Congestive Heart Failure	167	10.8	17.1	4.6	26.3	26.2	3.4	36.5	33.4	4.4
Pneumonia/Influenza	108	19.4	19.6	4.6	28.7	26.6	4.5	32.4	31.9	4.9
Chronic Obstructive Pulmonary Disease	46	4.3	11.6	*	15.2	19.4	*	23.9	25.6	*
Transient Cerebral Ischemia	37	0.0	2.0	*	0.0	4.3	*	0.0	6.8	*
Stroke	148	15.5	17.9	4.2	22.3	25.7	5.6	29.7	30.5	4.5
Hip Fracture	45	6.7	7.8	*	15.6	14.0	*	24.4	18.1	*
Sepsis	89	20.2	28.2	6.4	34.8	39.3	5.8	40.4	46.2	6.2
PROCEDURES:										
Angioplasty	75	8.0	2.9	3.2	9.3	4.0	3.5	9.3	5.2	3.8
Coronary Artery Bypass Graft	128	5.5	5.0	2.1	7.8	7.0	2.4	9.4	8.3	2.8
Initial Pacemaker Insertion	37	0.0	5.4	*	5.4	9.9	*	10.8	13.7	*
Carotid Endarterectomy	4	0.0	0.9	*	0.0	1.8	*	0.0	2.6	*
Hip Replacement/Reconstruction	35	5.7	4.3	*	8.6	8.3	*	11.4	11.0	*
Open Reduction of Hip Fracture	23	8.7	7.7	*	21.7	14.0	*	26.1	18.1	*
Prostatectomy	130	0.0	0.9	1.2	1.5	2.1	1.3	2.3	3.4	1.8
Cholecystectomy	41	2.4	3.1	*	2.4	5.7	*	2.4	7.6	*
Hysterectomy	24	12.5	2.7	*	12.5	4.0	*	16.7	5.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,666	8.2	10.3	0.6	14.2	15.8	0.6	18.4	19.8	0.7
CONDITIONS:										
Acute Myocardial Infarction	102	31.4	25.8	5.5	37.3	29.7	6.3	39.2	33.2	5.9
Congestive Heart Failure	163	12.3	18.7	5.0	22.1	27.9	4.9	31.3	35.1	4.4
Pneumonia/Influenza	112	16.1	18.5	5.8	20.5	24.7	5.5	28.6	29.5	4.8
Chronic Obstructive Pulmonary Disease	57	12.3	15.7	7.2	22.8	24.9	7.0	28.1	31.3	8.2
Transient Cerebral Ischemia	54	3.7	2.0	3.2	5.6	4.4	5.2	5.6	6.9	7.3
Stroke	155	15.5	19.8	4.0	27.1	27.3	4.9	34.2	31.8	3.8
Hip Fracture	53	7.5	9.5	5.5	20.8	16.3	6.3	22.6	20.4	6.0
Sepsis	113	24.8	30.1	7.1	35.4	40.9	6.0	44.2	47.3	5.3
PROCEDURES:										
Angioplasty	66	6.1	5.5	3.3	9.1	7.0	4.2	10.6	8.4	4.5
Coronary Artery Bypass Graft	82	4.9	6.5	3.6	14.6	9.1	3.8	15.9	10.6	4.1
Initial Pacemaker Insertion	44	0.0	4.4	*	6.8	8.3	*	9.1	11.4	*
Carotid Endarterectomy	10	0.0	1.8	*	0.0	3.2	*	0.0	4.6	*
Hip Replacement/Reconstruction	34	0.0	4.5	*	8.8	8.0	*	11.8	10.4	*
Open Reduction of Hip Fracture	36	8.3	7.8	*	16.7	14.2	*	16.7	18.3	*
Prostatectomy	123	0.8	1.2	1.3	0.8	2.8	2.3	1.6	4.6	3.2
Cholecystectomy	52	3.8	2.2	2.5	5.8	3.6	3.3	5.8	4.5	3.6
Hysterectomy	31	0.0	0.6	*	0.0	1.3	*	0.0	1.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

SOUTH HAVEN COMMUNITY HOSPITAL

955 S Bailey Ave
South Haven, MI 49090

Medicare Provider Number: 230085

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	502	14.9	10.2	2.0	19.3	15.2	2.0	22.1	19.2	2.0
CONDITIONS:										
Acute Myocardial Infarction	11	27.3	24.9	*	36.4	28.7	*	36.4	32.2	*
Congestive Heart Failure	36	11.1	12.9	*	11.1	20.1	*	16.7	26.3	*
Pneumonia/Influenza	63	28.6	17.0	7.3	30.2	23.1	7.5	30.2	27.8	9.4
Chronic Obstructive Pulmonary Disease	7	14.3	6.6	*	14.3	11.2	*	14.3	15.4	*
Transient Cerebral Ischemia	13	0.0	2.2	*	7.7	5.0	*	15.4	8.1	*
Stroke	26	23.1	16.5	*	34.6	22.6	*	34.6	26.8	*
Hip Fracture	14	14.3	6.5	*	35.7	11.7	*	35.7	15.3	*
Sepsis	7	28.6	26.2	*	28.6	32.5	*	28.6	37.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	0.0	3.5	*	33.3	6.7	*	33.3	9.2	*
Open Reduction of Hip Fracture	8	0.0	5.9	*	25.0	11.5	*	25.0	15.7	*
Prostatectomy	10	10.0	1.3	*	10.0	3.3	*	10.0	5.6	*
Cholecystectomy	12	8.3	4.3	*	8.3	7.6	*	16.7	9.7	*
Hysterectomy	5	0.0	1.6	*	0.0	3.6	*	0.0	5.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	82
Occupancy Rate	31
Ownership/Control	District/Authority

STAFFING: (As of September 30, 1989)

Total Number of Physicians	36
Percent of Physicians Board Certified Specialists	64
Medical Residents/Interns	0
Registered Nurses	56
Licensed Practical Nurses	12

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

SOUTH HAVEN COMMUNITY HOSPITAL

Medicare Provider Number: 230085

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	518	10.8	10.5	1.4	15.8	15.6	1.9	20.5	19.8	3.0
CONDITIONS:										
Acute Myocardial Infarction	12	25.0	31.1	*	25.0	35.2	*	33.3	39.2	*
Congestive Heart Failure	38	15.8	17.5	*	28.9	26.7	*	39.5	33.9	*
Pneumonia/Influenza	49	16.3	16.8	*	18.4	22.4	*	24.5	26.7	*
Chronic Obstructive Pulmonary Disease	7	14.3	8.5	*	14.3	13.5	*	14.3	18.3	*
Transient Cerebral Ischemia	12	16.7	3.1	*	25.0	7.3	*	33.3	12.0	*
Stroke	18	22.2	19.7	*	22.2	26.3	*	38.9	30.7	*
Hip Fracture	11	9.1	7.6	*	18.2	13.4	*	18.2	17.1	*
Sepsis	7	42.9	48.4	*	57.1	55.9	*	57.1	62.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	4.4	*	0.0	9.2	*	0.0	12.9	*
Open Reduction of Hip Fracture	6	0.0	4.7	*	0.0	8.8	*	0.0	11.7	*
Prostatectomy	18	0.0	1.0	*	5.6	2.4	*	5.6	4.0	*
Cholecystectomy	17	5.9	5.2	*	5.9	8.6	*	5.9	10.4	*
Hysterectomy	6	0.0	1.6	*	0.0	3.3	*	0.0	4.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	514	10.9	11.1	1.5	17.3	15.9	2.0	20.8	19.8	2.5
CONDITIONS:										
Acute Myocardial Infarction	19	15.8	30.8	*	26.3	34.4	*	26.3	37.7	*
Congestive Heart Failure	31	9.7	18.0	*	19.4	24.9	*	29.0	31.3	*
Pneumonia/Influenza	46	23.9	20.3	*	26.1	26.4	*	28.3	31.3	*
Chronic Obstructive Pulmonary Disease	7	0.0	5.5	*	0.0	11.0	*	0.0	16.8	*
Transient Cerebral Ischemia	8	0.0	1.9	*	0.0	4.2	*	0.0	6.8	*
Stroke	10	30.0	15.9	*	40.0	22.0	*	40.0	26.0	*
Hip Fracture	19	5.3	6.5	*	10.5	11.7	*	10.5	15.2	*
Sepsis	15	6.7	34.6	*	20.0	42.2	*	26.7	48.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	7	0.0	5.9	*	0.0	11.2	*	0.0	14.7	*
Open Reduction of Hip Fracture	9	11.1	5.8	*	22.2	10.9	*	22.2	14.6	*
Prostatectomy	15	6.7	1.1	*	6.7	2.6	*	6.7	4.3	*
Cholecystectomy	11	0.0	7.9	*	9.1	11.7	*	9.1	14.6	*
Hysterectomy	6	0.0	0.3	*	0.0	0.6	*	0.0	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

SOUTHWEST DETROIT HOSPITAL

2401 20th St
Detroit, MI 48226

Medicare Provider Number: 230266

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	399	12.5	13.8	1.8	20.3	19.2	2.1	26.3	23.4	2.6
CONDITIONS:										
Acute Myocardial Infarction	20	35.0	31.5	*	35.0	34.6	*	35.0	37.9	*
Congestive Heart Failure	46	13.0	12.8	*	21.7	19.8	*	28.3	26.0	*
Pneumonia/Influenza	26	7.7	16.1	*	19.2	22.6	*	26.9	27.4	*
Chronic Obstructive Pulmonary Disease	5	20.0	25.1	*	20.0	33.3	*	20.0	39.2	*
Transient Cerebral Ischemia	9	0.0	1.9	*	0.0	4.1	*	0.0	6.6	*
Stroke	42	14.3	20.3	*	31.0	27.0	*	40.5	31.3	*
Hip Fracture	10	10.0	7.6	*	20.0	12.7	*	30.0	15.7	*
Sepsis	3	33.3	23.0	*	33.3	30.3	*	33.3	35.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	4.9	*	0.0	8.1	*	0.0	9.9	*
Open Reduction of Hip Fracture	6	16.7	7.9	*	33.3	14.2	*	50.0	17.9	*
Prostatectomy	14	7.1	0.9	*	7.1	2.2	*	14.3	3.7	*
Cholecystectomy	3	33.3	9.6	*	33.3	13.8	*	66.7	14.9	*
Hysterectomy	1	0.0	0.6	*	0.0	1.1	*	0.0	1.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	216
Occupancy Rate	51
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	128
Percent of Physicians Board Certified Specialists	66
Medical Residents/Interns	0
Registered Nurses	59
Licensed Practical Nurses	18

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

SOUTHWEST DETROIT HOSPITAL

Medicare Provider Number: 230266

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	442	12.0	11.4	1.6	18.3	16.7	2.3	23.5	20.7	3.2
CONDITIONS:										
Acute Myocardial Infarction	10	40.0	25.7	*	50.0	29.3	*	50.0	33.0	*
Congestive Heart Failure	47	25.5	16.1	*	38.3	24.2	*	44.7	30.8	*
Pneumonia/Influenza	19	15.8	14.5	*	21.1	19.3	*	21.1	23.4	*
Chronic Obstructive Pulmonary Disease	2	100.0	17.2	*	100.0	23.5	*	100.0	29.1	*
Transient Cerebral Ischemia	6	0.0	1.8	*	0.0	4.0	*	0.0	6.4	*
Stroke	34	23.5	19.6	*	23.5	25.9	*	32.4	30.1	*
Hip Fracture	10	10.0	8.2	*	20.0	13.6	*	30.0	16.7	*
Sepsis	1	100.0	29.2	*	100.0	40.0	*	100.0	45.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	0.0	7.5	*	0.0	12.7	*	0.0	15.6	*
Open Reduction of Hip Fracture	5	20.0	7.6	*	20.0	13.3	*	40.0	16.6	*
Prostatectomy	15	6.7	1.0	*	6.7	2.3	*	6.7	3.7	*
Cholecystectomy	1	0.0	0.8	*	0.0	2.0	*	0.0	3.2	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	595	10.8	10.9	1.4	18.3	16.5	1.9	22.9	20.6	2.2
CONDITIONS:										
Acute Myocardial Infarction	12	25.0	29.8	*	41.7	32.9	*	41.7	36.3	*
Congestive Heart Failure	36	13.9	17.0	*	25.0	25.8	*	30.6	32.9	*
Pneumonia/Influenza	19	0.0	19.5	*	10.5	26.0	*	15.8	31.2	*
Chronic Obstructive Pulmonary Disease	13	7.7	14.8	*	30.8	22.6	*	30.8	27.4	*
Transient Cerebral Ischemia	10	10.0	1.9	*	10.0	4.1	*	20.0	6.4	*
Stroke	35	22.9	22.0	*	31.4	29.2	*	37.1	33.7	*
Hip Fracture	6	0.0	6.7	*	16.7	11.3	*	16.7	14.4	*
Sepsis	3	33.3	47.1	*	66.7	60.9	*	66.7	68.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	5.8	*	0.0	9.1	*	0.0	11.4	*
Open Reduction of Hip Fracture	0									
Prostatectomy	24	0.0	2.1	*	0.0	4.6	*	8.3	7.0	*
Cholecystectomy	4	0.0	1.1	*	0.0	2.2	*	0.0	3.2	*
Hysterectomy	1	0.0	0.1	*	0.0	0.4	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

ST FRANCIS HOSPITAL

3401 Ludington St
Escanaba, MI 49829

Medicare Provider Number: 230101

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	818	7.9	8.9	1.4	12.2	13.3	1.5	16.6	16.9	1.3
CONDITIONS:										
Acute Myocardial Infarction	36	8.3	22.7	*	19.4	25.8	*	27.8	28.9	*
Congestive Heart Failure	49	26.5	18.9	*	28.6	29.0	*	34.7	36.6	*
Pneumonia/Influenza	52	7.7	16.3	9.4	19.2	22.3	8.4	21.2	27.1	9.1
Chronic Obstructive Pulmonary Disease	11	0.0	3.4	*	9.1	7.0	*	18.2	10.4	*
Transient Cerebral Ischemia	10	0.0	1.9	*	10.0	4.1	*	10.0	6.7	*
Stroke	32	21.9	16.5	*	21.9	23.0	*	25.0	27.3	*
Hip Fracture	27	3.7	8.4	*	3.7	14.8	*	7.4	18.9	*
Sepsis	8	25.0	24.0	*	25.0	31.5	*	37.5	36.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	6	0.0	4.2	*	0.0	7.7	*	0.0	10.2	*
Open Reduction of Hip Fracture	16	0.0	8.1	*	0.0	14.9	*	6.3	19.2	*
Prostatectomy	45	2.2	1.1	*	2.2	2.8	*	8.9	4.6	*
Cholecystectomy	31	3.2	2.9	*	6.5	5.2	*	9.7	6.9	*
Hysterectomy	11	0.0	0.5	*	0.0	1.0	*	0.0	1.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	66
Occupancy Rate	54
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	37
Percent of Physicians Board Certified Specialists	97
Medical Residents/Interns	0
Registered Nurses	63
Licensed Practical Nurses	32

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

ST FRANCIS HOSPITAL

Medicare Provider Number: 230101

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	932	9.5	9.4	1.0	15.7	14.0	1.4	18.9	17.6	2.0
CONDITIONS:										
Acute Myocardial Infarction	39	10.3	24.1	*	23.1	27.8	*	25.6	31.4	*
Congestive Heart Failure	55	3.6	14.0	7.8	14.5	21.2	8.1	21.8	27.4	6.9
Pneumonia/Influenza	63	11.1	16.4	6.5	20.6	22.6	5.6	28.6	27.4	5.7
Chronic Obstructive Pulmonary Disease	11	18.2	8.6	*	18.2	15.1	*	18.2	21.1	*
Transient Cerebral Ischemia	13	0.0	1.6	*	0.0	3.5	*	7.7	5.6	*
Stroke	38	21.1	20.0	*	36.8	26.4	*	42.1	30.8	*
Hip Fracture	35	5.7	9.7	*	14.3	16.9	*	17.1	21.1	*
Sepsis	9	33.3	25.9	*	44.4	34.0	*	66.7	40.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	11	0.0	6.5	*	0.0	12.6	*	9.1	16.5	*
Open Reduction of Hip Fracture	17	5.9	10.1	*	11.8	18.2	*	11.8	23.2	*
Prostatectomy	32	0.0	0.8	*	3.1	1.8	*	6.3	3.0	*
Cholecystectomy	26	0.0	2.4	*	3.8	4.3	*	3.8	5.7	*
Hysterectomy	15	0.0	0.3	*	0.0	0.6	*	0.0	0.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	954	10.0	8.9	1.3	14.8	13.5	1.3	19.0	17.1	1.6
CONDITIONS:										
Acute Myocardial Infarction	41	24.4	28.0	*	34.1	31.4	*	36.6	34.5	*
Congestive Heart Failure	56	12.5	16.5	6.4	25.0	23.8	6.3	30.4	30.3	6.3
Pneumonia/Influenza	44	2.3	18.3	*	11.4	24.6	*	25.0	29.5	*
Chronic Obstructive Pulmonary Disease	14	7.1	7.0	*	14.3	11.4	*	21.4	15.3	*
Transient Cerebral Ischemia	13	0.0	2.5	*	0.0	5.6	*	0.0	8.9	*
Stroke	41	17.1	16.1	*	29.3	22.9	*	34.1	27.2	*
Hip Fracture	27	7.4	7.5	*	18.5	13.1	*	22.2	16.7	*
Sepsis	10	50.0	27.9	*	60.0	35.7	*	60.0	41.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	10	0.0	3.9	*	0.0	7.6	*	0.0	10.2	*
Open Reduction of Hip Fracture	13	15.4	7.6	*	30.8	13.8	*	38.5	17.5	*
Prostatectomy	38	2.6	0.9	*	2.6	2.2	*	5.3	3.7	*
Cholecystectomy	32	3.1	2.7	*	6.3	4.6	*	6.3	5.9	*
Hysterectomy	15	0.0	0.3	*	0.0	0.6	*	0.0	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

ST JOHN HOSPITAL

22101 Moross Rd
Detroit, MI 48236

Medicare Provider Number: 230165

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	4,080	9.0	9.9	0.6	14.2	14.9	0.6	17.9	18.8	0.7
CONDITIONS:										
Acute Myocardial Infarction	180	17.2	25.1	4.1	25.0	28.7	4.3	26.7	32.2	3.9
Congestive Heart Failure	198	15.7	15.6	2.9	22.7	23.9	3.5	29.8	30.7	4.1
Pneumonia/Influenza	119	11.8	18.6	5.1	22.7	25.1	4.2	27.7	30.1	4.4
Chronic Obstructive Pulmonary Disease	15	6.7	11.4	*	20.0	17.6	*	20.0	22.9	*
Transient Cerebral Ischemia	52	1.9	2.0	1.9	3.8	4.4	3.0	3.8	7.1	4.5
Stroke	124	25.8	22.9	5.1	32.3	29.7	5.1	35.5	34.2	4.4
Hip Fracture	67	9.0	7.3	5.3	16.4	12.5	6.2	17.9	15.9	5.2
Sepsis	21	33.3	32.7	*	38.1	42.0	*	38.1	48.5	*
PROCEDURES:										
Angioplasty	95	1.1	2.8	2.5	1.1	3.7	3.0	1.1	4.8	3.6
Coronary Artery Bypass Graft	300	2.0	5.5	1.7	5.0	7.7	1.8	6.7	9.2	1.8
Initial Pacemaker Insertion	39	0.0	3.0	*	0.0	6.0	*	0.0	8.9	*
Carotid Endarterectomy	33	0.0	1.2	*	0.0	2.2	*	6.1	3.3	*
Hip Replacement/Reconstruction	59	1.7	3.4	2.7	5.1	5.9	3.4	5.1	7.6	4.0
Open Reduction of Hip Fracture	42	7.1	6.2	*	11.9	11.4	*	14.3	14.8	*
Prostatectomy	135	0.0	1.5	1.7	1.5	3.1	2.4	3.7	4.9	2.9
Cholecystectomy	92	3.3	2.9	2.0	6.5	5.0	2.7	10.9	6.4	3.6
Hysterectomy	48	0.0	0.3	*	0.0	0.5	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	552
Occupancy Rate	82
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	274
Percent of Physicians Board Certified Specialists	85
Medical Residents/Interns	99
Registered Nurses	653
Licensed Practical Nurses	114

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	Yes

**** Not used in calculating hospital mortality rates.**

ST JOHN HOSPITAL

Medicare Provider Number: 230165

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,994	9.2	10.2	0.7	14.3	15.1	0.8	18.1	19.0	0.8
CONDITIONS:										
Acute Myocardial Infarction	182	22.0	28.8	5.4	26.9	32.4	5.1	31.9	36.0	4.4
Congestive Heart Failure	174	11.5	17.2	4.1	16.7	25.9	5.4	27.6	32.9	4.7
Pneumonia/Influenza	119	17.6	19.5	4.7	22.7	25.8	5.4	28.6	30.8	4.9
Chronic Obstructive Pulmonary Disease	63	9.5	10.6	4.3	17.5	17.2	5.2	25.4	22.8	5.6
Transient Cerebral Ischemia	42	0.0	2.2	*	0.0	4.7	*	0.0	7.2	*
Stroke	127	24.4	24.4	4.6	33.9	31.1	4.8	40.9	35.8	4.7
Hip Fracture	99	8.1	7.5	4.6	17.2	13.4	4.8	19.2	17.1	5.2
Sepsis	20	30.0	27.6	*	55.0	37.7	*	55.0	44.1	*
PROCEDURES:										
Angioplasty	116	0.9	3.6	3.6	0.9	4.6	4.2	3.4	5.7	4.1
Coronary Artery Bypass Graft	257	3.1	6.0	2.2	5.1	8.3	2.7	6.2	9.7	3.0
Initial Pacemaker Insertion	36	11.1	6.0	*	11.1	9.6	*	13.9	12.6	*
Carotid Endarterectomy	23	0.0	1.5	*	0.0	2.7	*	0.0	4.0	*
Hip Replacement/Reconstruction	73	1.4	3.2	2.6	4.1	5.9	4.0	4.1	7.7	4.9
Open Reduction of Hip Fracture	49	8.2	7.1	*	16.3	13.3	*	20.4	17.3	*
Prostatectomy	142	0.0	1.3	1.5	1.4	3.1	2.1	3.5	5.0	2.3
Cholecystectomy	66	1.5	3.5	2.8	1.5	6.0	4.0	1.5	7.5	4.8
Hysterectomy	39	2.6	0.7	*	5.1	1.4	*	5.1	2.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	4,051	9.5	10.4	0.7	14.6	15.3	0.9	17.9	19.1	0.8
CONDITIONS:										
Acute Myocardial Infarction	214	20.6	28.9	4.4	29.9	32.6	4.1	33.6	36.2	3.5
Congestive Heart Failure	177	14.7	17.0	5.8	22.0	25.3	6.6	29.4	32.1	5.4
Pneumonia/Influenza	110	26.4	18.7	5.5	30.0	24.7	5.3	31.8	29.6	4.6
Chronic Obstructive Pulmonary Disease	69	17.4	16.4	4.7	18.8	25.2	6.3	29.0	31.4	6.4
Transient Cerebral Ischemia	56	1.8	2.4	3.5	5.4	5.2	3.3	8.9	8.2	3.8
Stroke	144	16.7	24.4	5.6	29.9	31.0	4.1	32.6	35.6	4.3
Hip Fracture	78	9.0	8.0	3.9	16.7	14.1	5.2	19.2	18.1	5.2
Sepsis	13	23.1	28.9	*	38.5	37.1	*	38.5	42.5	*
PROCEDURES:										
Angioplasty	65	3.1	4.2	2.8	4.6	5.0	3.3	4.6	6.0	3.6
Coronary Artery Bypass Graft	191	3.1	6.9	2.7	5.8	9.2	2.9	7.9	10.6	2.7
Initial Pacemaker Insertion	37	2.7	5.5	*	8.1	9.7	*	10.8	13.1	*
Carotid Endarterectomy	32	0.0	1.5	*	3.1	2.6	*	3.1	3.8	*
Hip Replacement/Reconstruction	47	4.3	3.8	*	4.3	7.0	*	6.4	9.4	*
Open Reduction of Hip Fracture	47	6.4	6.9	*	14.9	12.8	*	19.1	16.7	*
Prostatectomy	161	0.0	1.6	1.6	3.1	3.8	2.2	3.7	6.1	2.8
Cholecystectomy	62	1.6	2.7	2.8	3.2	4.5	3.9	3.2	5.6	4.2
Hysterectomy	53	1.9	0.4	1.4	1.9	0.9	1.7	1.9	1.4	2.2

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

ST JOHN HOSPITAL-MACOMB CENTER

26755 Ballard Road
Mt Clemens, MI 48045

Medicare Provider Number: 230257

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	101	5.0	7.3	3.7	8.9	10.8	4.7	9.9	13.6	5.5
CONDITIONS:										
Acute Myocardial Infarction	1	0.0	30.3	*	0.0	34.2	*	0.0	39.6	*
Congestive Heart Failure	1	0.0	9.5	*	0.0	15.1	*	0.0	20.4	*
Pneumonia/Influenza	13	7.7	13.0	*	15.4	17.7	*	23.1	21.7	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	2	0.0	19.5	*	0.0	24.6	*	0.0	28.8	*
Hip Fracture	0									
Sepsis	1	0.0	26.4	*	0.0	30.4	*	0.0	35.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	2	0.0	0.4	*	0.0	0.9	*	0.0	1.5	*
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	96
Occupancy Rate	39
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	51
Percent of Physicians Board Certified Specialists	63
Medical Residents/Interns	6
Registered Nurses	46
Licensed Practical Nurses	5

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

ST JOHN HOSPITAL-MACOMB CENTER

Medicare Provider Number: 230257

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	155	8.4	10.7	3.4	14.8	15.9	3.7	18.7	19.8	3.5
CONDITIONS:										
Acute Myocardial Infarction	2	0.0	58.9	*	50.0	64.9	*	100.0	70.4	*
Congestive Heart Failure	12	16.7	18.8	*	16.7	28.3	*	16.7	35.4	*
Pneumonia/Influenza	12	16.7	17.3	*	33.3	23.2	*	33.3	27.9	*
Chronic Obstructive Pulmonary Disease	4	0.0	9.8	*	50.0	15.2	*	50.0	20.0	*
Transient Cerebral Ischemia	4	0.0	2.5	*	0.0	5.5	*	25.0	8.3	*
Stroke	4	25.0	17.8	*	25.0	23.5	*	25.0	27.7	*
Hip Fracture	3	0.0	4.6	*	0.0	8.4	*	33.3	11.1	*
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	12.5	*	0.0	23.8	*	0.0	32.2	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	2	0.0	3.2	*	0.0	6.0	*	0.0	8.0	*
Prostatectomy	2	0.0	1.2	*	50.0	3.0	*	50.0	4.8	*
Cholecystectomy	1	0.0	1.2	*	0.0	2.3	*	0.0	2.9	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	192	8.3	10.2	3.0	13.0	14.4	2.9	16.7	17.9	3.1
CONDITIONS:										
Acute Myocardial Infarction	7	42.9	41.2	*	42.9	44.3	*	42.9	48.4	*
Congestive Heart Failure	7	14.3	20.9	*	28.6	29.7	*	42.9	37.1	*
Pneumonia/Influenza	10	10.0	17.9	*	20.0	24.3	*	30.0	29.4	*
Chronic Obstructive Pulmonary Disease	3	0.0	13.4	*	0.0	19.8	*	0.0	24.7	*
Transient Cerebral Ischemia	5	20.0	1.9	*	20.0	3.9	*	20.0	6.1	*
Stroke	4	25.0	33.7	*	50.0	43.2	*	50.0	48.8	*
Hip Fracture	6	0.0	6.2	*	0.0	12.2	*	0.0	16.6	*
Sepsis	3	100.0	42.2	*	100.0	47.7	*	100.0	54.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	0.8	*	0.0	2.0	*	0.0	3.2	*
Carotid Endarterectomy	1	0.0	2.6	*	0.0	4.7	*	0.0	6.7	*
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	1	0.0	1.5	*	0.0	3.3	*	0.0	4.8	*
Prostatectomy	1	0.0	3.0	*	0.0	7.2	*	0.0	11.3	*
Cholecystectomy	5	0.0	2.3	*	0.0	4.4	*	0.0	5.6	*
Hysterectomy	3	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

ST JOSEPH HOSPITAL

302 Kensington Ave
Flint, MI 48502

Medicare Provider Number: 230068

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,183	10.2	10.0	0.6	15.1	15.0	0.7	18.9	18.9	0.7
CONDITIONS:										
Acute Myocardial Infarction	111	27.0	27.3	4.6	30.6	30.3	4.4	32.4	33.5	4.9
Congestive Heart Failure	184	18.5	15.6	4.6	26.1	24.0	5.4	34.8	31.0	6.7
Pneumonia/Influenza	139	15.1	17.7	5.0	21.6	23.8	4.6	27.3	28.7	4.3
Chronic Obstructive Pulmonary Disease	61	6.6	13.9	7.3	9.8	20.2	8.1	18.0	25.5	7.5
Transient Cerebral Ischemia	67	3.0	2.0	2.0	7.5	4.4	3.6	9.0	7.1	4.3
Stroke	109	28.4	23.0	6.0	37.6	29.9	6.4	43.1	34.4	7.6
Hip Fracture	75	5.3	6.8	3.2	12.0	12.0	3.8	14.7	15.5	4.2
Sepsis	32	15.6	29.6	*	25.0	37.3	*	28.1	43.6	*
PROCEDURES:										
Angioplasty	16	12.5	3.2	*	12.5	3.9	*	12.5	4.8	*
Coronary Artery Bypass Graft	68	10.3	4.8	5.3	14.7	6.5	5.6	14.7	7.7	5.6
Initial Pacemaker Insertion	19	0.0	3.1	*	0.0	6.2	*	0.0	9.2	*
Carotid Endarterectomy	61	1.6	1.5	1.8	3.3	2.8	2.3	3.3	4.1	2.6
Hip Replacement/Reconstruction	54	1.9	3.6	3.0	1.9	7.1	6.0	5.6	9.7	7.2
Open Reduction of Hip Fracture	40	7.5	6.2	*	15.0	11.3	*	17.5	14.6	*
Prostatectomy	119	0.8	0.9	1.2	1.7	2.2	1.8	4.2	3.7	1.8
Cholecystectomy	82	6.1	3.8	4.0	12.2	7.0	4.8	12.2	9.3	4.4
Hysterectomy	26	0.0	0.9	*	0.0	2.0	*	3.8	2.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	423
Occupancy Rate	60
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	242
Percent of Physicians Board Certified Specialists	74
Medical Residents/Interns	45
Registered Nurses	297
Licensed Practical Nurses	151

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	Yes
Rehabilitation Unit	No
Trauma Center	Yes

**** Not used in calculating hospital mortality rates.**

ST JOSEPH HOSPITAL

Medicare Provider Number: 230068

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,137	10.1	10.2	0.6	15.6	15.4	0.7	19.9	19.4	0.9
CONDITIONS:										
Acute Myocardial Infarction	109	27.5	29.2	4.5	34.9	32.1	4.8	38.5	35.3	5.8
Congestive Heart Failure	188	20.2	18.3	3.3	28.7	27.6	5.4	37.8	34.9	4.9
Pneumonia/Influenza	116	19.0	17.8	4.3	29.3	24.0	6.3	33.6	28.8	9.0
Chronic Obstructive Pulmonary Disease	64	3.1	12.5	7.0	17.2	21.1	6.4	26.6	27.6	5.6
Transient Cerebral Ischemia	58	3.4	2.2	2.8	5.2	5.0	4.1	5.2	8.0	5.2
Stroke	122	21.3	20.6	3.7	27.9	28.2	4.2	34.4	33.0	4.8
Hip Fracture	69	2.9	7.0	4.5	14.5	12.5	4.9	17.4	16.0	4.7
Sepsis	33	27.3	30.4	*	33.3	37.8	*	39.4	43.8	*
PROCEDURES:										
Angioplasty	4	0.0	8.8	*	0.0	9.8	*	0.0	10.9	*
Coronary Artery Bypass Graft	70	5.7	5.4	2.9	8.6	7.1	3.3	10.0	8.3	3.8
Initial Pacemaker Insertion	10	10.0	4.6	*	10.0	8.3	*	20.0	11.6	*
Carotid Endarterectomy	35	0.0	1.5	*	0.0	2.6	*	0.0	3.9	*
Hip Replacement/Reconstruction	58	3.4	3.6	2.7	8.6	6.8	4.2	13.8	8.9	7.0
Open Reduction of Hip Fracture	33	0.0	6.6	*	12.1	12.3	*	12.1	15.9	*
Prostatectomy	100	2.0	1.2	1.6	3.0	2.8	2.2	4.0	4.6	3.0
Cholecystectomy	67	4.5	2.7	2.8	4.5	4.8	2.9	4.5	6.0	3.5
Hysterectomy	23	0.0	0.7	*	0.0	1.4	*	0.0	2.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,155	11.2	10.2	0.9	16.9	15.3	1.1	20.5	19.3	1.0
CONDITIONS:										
Acute Myocardial Infarction	113	32.7	29.3	5.2	35.4	32.5	5.1	38.9	35.8	5.2
Congestive Heart Failure	164	20.7	17.9	4.2	33.5	26.8	7.1	39.6	34.0	6.7
Pneumonia/Influenza	112	20.5	19.5	4.8	29.5	25.8	6.7	36.6	30.8	8.9
Chronic Obstructive Pulmonary Disease	88	18.2	14.1	4.8	23.9	21.7	4.8	27.3	27.2	5.6
Transient Cerebral Ischemia	82	4.9	2.1	2.8	4.9	4.7	2.5	7.3	7.5	3.0
Stroke	121	24.0	22.5	4.2	38.0	29.7	6.8	41.3	34.3	6.6
Hip Fracture	70	2.9	6.8	5.1	8.6	12.1	6.6	11.4	15.5	6.5
Sepsis	21	52.4	37.2	*	66.7	46.2	*	71.4	52.7	*
PROCEDURES:										
Angioplasty	3	0.0	1.6	*	0.0	2.1	*	0.0	2.9	*
Coronary Artery Bypass Graft	39	7.7	6.4	*	12.8	7.8	*	12.8	8.7	*
Initial Pacemaker Insertion	18	5.6	3.2	*	11.1	6.5	*	11.1	9.5	*
Carotid Endarterectomy	59	3.4	1.5	2.3	5.1	2.7	2.7	6.8	3.9	3.6
Hip Replacement/Reconstruction	54	0.0	2.6	3.4	0.0	4.9	5.7	3.7	6.5	4.4
Open Reduction of Hip Fracture	39	2.6	6.8	*	12.8	12.5	*	15.4	16.2	*
Prostatectomy	110	0.0	0.9	1.6	3.6	2.1	1.7	4.5	3.5	2.8
Cholecystectomy	51	3.9	2.9	2.6	5.9	5.0	3.4	7.8	6.6	4.6
Hysterectomy	14	0.0	0.6	*	0.0	1.2	*	0.0	1.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

ST JOSEPH HOSPITAL EAST WEST

215 North Avenue
Mt Clemens, MI 48043

Medicare Provider Number: 230047

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,072	9.4	9.4	0.7	14.2	14.2	1.0	17.4	17.9	0.9
CONDITIONS:										
Acute Myocardial Infarction	103	23.3	24.2	5.8	28.2	27.9	5.9	31.1	31.4	4.7
Congestive Heart Failure	153	18.3	16.4	3.5	26.1	25.5	4.0	33.3	32.7	4.4
Pneumonia/Influenza	141	12.1	17.6	4.0	24.8	23.6	3.8	29.8	28.4	3.9
Chronic Obstructive Pulmonary Disease	65	9.2	13.8	5.2	20.0	20.6	8.3	21.5	25.9	6.0
Transient Cerebral Ischemia	128	3.1	1.9	1.9	3.9	4.2	2.2	6.3	6.8	2.4
Stroke	135	25.2	20.3	6.7	34.1	27.4	7.2	36.3	31.9	7.6
Hip Fracture	65	12.3	6.8	4.4	26.2	12.2	7.1	26.2	15.7	6.9
Sepsis	52	26.9	29.1	8.5	34.6	38.9	9.9	40.4	45.3	8.0
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	23	0.0	3.0	*	4.3	5.8	*	4.3	8.6	*
Carotid Endarterectomy	33	0.0	1.3	*	0.0	2.3	*	6.1	3.4	*
Hip Replacement/Reconstruction	45	8.9	3.5	*	20.0	6.5	*	20.0	8.6	*
Open Reduction of Hip Fracture	30	6.7	6.3	*	16.7	11.9	*	16.7	15.7	*
Prostatectomy	101	1.0	0.7	0.9	3.0	1.6	1.7	3.0	2.7	2.4
Cholecystectomy	54	3.7	1.9	2.4	3.7	3.3	2.5	3.7	4.4	2.9
Hysterectomy	11	0.0	0.8	*	0.0	1.7	*	9.1	2.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	360
Occupancy Rate	64
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	170
Percent of Physicians Board Certified Specialists	72
Medical Residents/Interns	0
Registered Nurses	330
Licensed Practical Nurses	77

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

ST JOSEPH HOSPITAL EAST WEST

Medicare Provider Number: 230047

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	3,287	9.2	9.3	0.5	13.7	13.9	0.7	17.1	17.6	0.8
CONDITIONS:										
Acute Myocardial Infarction	100	31.0	27.9	5.8	34.0	31.8	6.9	41.0	35.5	7.7
Congestive Heart Failure	146	16.4	16.1	3.2	27.4	24.3	5.1	33.6	31.1	4.7
Pneumonia/Influenza	135	23.0	18.6	6.0	31.9	24.7	6.9	35.6	29.4	6.4
Chronic Obstructive Pulmonary Disease	81	8.6	10.5	5.0	14.8	17.3	5.0	18.5	22.8	6.3
Transient Cerebral Ischemia	105	2.9	1.9	2.1	5.7	4.1	4.0	5.7	6.5	4.2
Stroke	136	21.3	20.6	3.5	27.9	27.7	3.8	31.6	32.4	4.4
Hip Fracture	66	7.6	6.7	3.3	16.7	11.9	6.1	19.7	15.1	7.7
Sepsis	56	25.0	29.6	9.4	33.9	37.9	8.3	44.6	44.1	6.6
PROCEDURES:										
Angioplasty	1	0.0	2.3	*	0.0	5.4	*	0.0	9.7	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	28	3.6	5.2	*	7.1	8.3	*	7.1	11.0	*
Carotid Endarterectomy	32	3.1	1.6	*	3.1	2.9	*	6.3	4.2	*
Hip Replacement/Reconstruction	46	0.0	2.6	*	0.0	4.9	*	4.3	6.4	*
Open Reduction of Hip Fracture	37	8.1	6.1	*	18.9	11.2	*	21.6	14.5	*
Prostatectomy	111	1.8	0.6	1.3	1.8	1.4	1.8	2.7	2.3	2.4
Cholecystectomy	59	5.1	2.8	3.5	6.8	4.9	5.2	10.2	6.2	5.2
Hysterectomy	21	0.0	0.5	*	0.0	0.9	*	0.0	1.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	3,074	8.4	9.6	0.8	13.8	14.2	0.7	17.2	17.8	0.8
CONDITIONS:										
Acute Myocardial Infarction	105	29.5	29.1	4.6	32.4	32.8	5.5	40.0	36.3	6.6
Congestive Heart Failure	136	21.3	18.5	4.7	30.1	27.6	5.6	40.4	34.9	7.6
Pneumonia/Influenza	98	14.3	18.8	6.7	23.5	24.9	7.9	26.5	29.6	6.1
Chronic Obstructive Pulmonary Disease	60	5.0	11.6	7.4	13.3	18.4	6.8	21.7	23.6	5.8
Transient Cerebral Ischemia	90	1.1	2.3	1.9	2.2	4.9	3.2	5.6	7.7	4.2
Stroke	139	20.1	21.1	3.6	28.1	28.2	4.4	30.9	32.5	4.6
Hip Fracture	52	7.7	7.2	3.7	15.4	12.7	5.4	19.2	16.4	7.5
Sepsis	35	37.1	30.2	*	45.7	38.5	*	54.3	44.7	*
PROCEDURES:										
Angioplasty	1	0.0	1.8	*	0.0	3.4	*	0.0	5.1	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	28	10.7	5.0	*	10.7	9.4	*	14.3	13.1	*
Carotid Endarterectomy	29	3.4	1.6	*	3.4	3.1	*	3.4	4.6	*
Hip Replacement/Reconstruction	44	2.3	3.8	*	2.3	6.6	*	2.3	8.5	*
Open Reduction of Hip Fracture	22	13.6	5.7	*	22.7	10.9	*	31.8	14.3	*
Prostatectomy	132	0.8	0.8	0.8	3.8	1.8	2.0	3.8	3.0	2.1
Cholecystectomy	45	2.2	3.0	*	2.2	5.2	*	4.4	6.6	*
Hysterectomy	16	0.0	0.8	*	0.0	1.9	*	6.3	3.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

ST JOSEPH MERCY HOSPITAL

900 Woodward Ave
Pontiac, MI 48053

Medicare Provider Number: 230029

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,181	8.7	9.9	0.7	14.1	14.6	0.8	17.8	18.4	0.7
CONDITIONS:										
Acute Myocardial Infarction	119	16.0	25.3	7.0	21.0	28.9	6.7	25.2	32.6	6.0
Congestive Heart Failure	201	13.4	15.6	3.7	20.4	23.9	5.2	25.9	30.7	6.4
Pneumonia/Influenza	111	20.7	17.9	5.2	31.5	24.3	6.2	38.7	29.3	7.7
Chronic Obstructive Pulmonary Disease	17	0.0	14.3	*	0.0	21.0	*	5.9	26.2	*
Transient Cerebral Ischemia	80	1.2	1.9	2.0	1.2	4.3	3.8	3.8	6.8	5.4
Stroke	129	17.1	22.3	4.3	22.5	29.4	5.3	24.8	34.0	6.0
Hip Fracture	61	8.2	6.5	4.3	13.1	11.8	5.4	16.4	15.3	4.8
Sepsis	67	19.4	33.3	8.3	32.8	41.4	8.2	40.3	47.7	6.8
PROCEDURES:										
Angioplasty	39	5.1	3.5	*	7.7	4.6	*	7.7	5.8	*
Coronary Artery Bypass Graft	82	1.2	4.9	3.1	3.7	7.1	3.6	6.1	8.5	3.4
Initial Pacemaker Insertion	30	0.0	3.4	*	3.3	6.5	*	3.3	9.3	*
Carotid Endarterectomy	21	0.0	1.3	*	0.0	2.3	*	0.0	3.5	*
Hip Replacement/Reconstruction	53	3.8	3.2	2.7	5.7	6.0	3.5	7.5	8.0	3.9
Open Reduction of Hip Fracture	27	0.0	6.1	*	7.4	11.3	*	11.1	14.7	*
Prostatectomy	75	0.0	0.7	1.2	1.3	1.7	1.6	2.7	2.9	2.0
Cholecystectomy	63	1.6	1.6	2.5	1.6	2.9	3.3	3.2	4.0	3.8
Hysterectomy	40	5.0	0.9	*	5.0	2.0	*	7.5	3.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	449
Occupancy Rate	82
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	286
Percent of Physicians Board Certified Specialists	84
Medical Residents/Interns	99
Registered Nurses	516
Licensed Practical Nurses	48

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	Yes
Rehabilitation Unit	Yes
Trauma Center	Yes

**** Not used in calculating hospital mortality rates.**

ST JOSEPH MERCY HOSPITAL

Medicare Provider Number: 230029

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,205	8.5	9.9	0.9	13.7	14.7	0.9	17.6	18.5	0.9
CONDITIONS:										
Acute Myocardial Infarction	112	25.9	26.9	4.5	33.0	30.2	5.4	35.7	34.0	4.8
Congestive Heart Failure	177	15.3	16.2	2.9	23.7	24.7	3.4	29.9	31.7	4.0
Pneumonia/Influenza	112	16.1	19.3	4.9	24.1	26.5	4.8	33.9	32.0	4.7
Chronic Obstructive Pulmonary Disease	46	10.9	13.2	*	15.2	21.2	*	26.1	27.1	*
Transient Cerebral Ischemia	106	1.9	2.0	1.7	4.7	4.4	2.6	8.5	7.1	3.2
Stroke	139	14.4	21.1	4.7	19.4	27.6	5.8	22.3	32.0	6.5
Hip Fracture	68	7.4	7.8	5.6	13.2	13.9	4.3	16.2	17.4	4.8
Sepsis	44	27.3	33.8	*	36.4	41.8	*	45.5	48.5	*
PROCEDURES:										
Angioplasty	24	8.3	2.8	*	8.3	4.3	*	12.5	5.6	*
Coronary Artery Bypass Graft	49	8.2	5.0	*	8.2	6.8	*	8.2	8.0	*
Initial Pacemaker Insertion	31	6.5	5.2	*	6.5	8.0	*	9.7	10.9	*
Carotid Endarterectomy	16	0.0	1.2	*	0.0	2.3	*	0.0	3.3	*
Hip Replacement/Reconstruction	53	1.9	3.4	4.0	7.5	6.7	4.5	11.3	9.1	4.8
Open Reduction of Hip Fracture	35	11.4	8.4	*	17.1	15.4	*	20.0	19.5	*
Prostatectomy	112	1.8	1.0	1.2	2.7	2.2	1.7	3.6	3.6	2.1
Cholecystectomy	62	1.6	3.7	2.8	3.2	6.2	3.9	3.2	7.6	4.6
Hysterectomy	26	0.0	0.5	*	0.0	1.2	*	0.0	1.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,162	8.7	9.3	0.7	13.9	13.9	0.8	17.4	17.6	0.7
CONDITIONS:										
Acute Myocardial Infarction	128	21.1	28.1	5.2	28.9	31.8	4.7	32.8	35.5	4.6
Congestive Heart Failure	166	18.7	18.5	3.0	31.3	28.0	5.5	39.2	35.5	5.0
Pneumonia/Influenza	106	15.1	19.5	7.3	24.5	26.1	5.5	29.2	31.3	5.0
Chronic Obstructive Pulmonary Disease	37	16.2	12.4	*	27.0	20.2	*	35.1	26.3	*
Transient Cerebral Ischemia	88	2.3	2.1	2.2	2.3	4.6	3.6	3.4	7.2	5.3
Stroke	124	22.6	22.9	4.0	30.6	30.2	4.3	33.9	34.8	4.4
Hip Fracture	61	8.2	5.6	3.4	18.0	10.4	5.6	27.9	13.6	6.8
Sepsis	37	40.5	38.5	*	54.1	45.8	*	56.8	52.5	*
PROCEDURES:										
Angioplasty	8	0.0	3.4	*	0.0	4.3	*	0.0	5.4	*
Coronary Artery Bypass Graft	33	6.1	4.2	*	9.1	5.9	*	9.1	6.8	*
Initial Pacemaker Insertion	13	7.7	4.0	*	7.7	7.8	*	7.7	11.3	*
Carotid Endarterectomy	24	0.0	1.5	*	4.2	2.9	*	4.2	4.1	*
Hip Replacement/Reconstruction	63	3.2	2.0	3.4	9.5	3.8	4.1	12.7	5.1	4.7
Open Reduction of Hip Fracture	29	3.4	5.1	*	10.3	9.9	*	17.2	13.2	*
Prostatectomy	127	0.0	0.9	1.1	0.8	2.2	2.2	1.6	3.7	3.5
Cholecystectomy	63	3.2	2.6	3.3	6.3	4.4	5.1	7.9	5.6	5.7
Hysterectomy	27	3.7	1.1	*	3.7	2.6	*	3.7	4.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

ST JOSEPH MERCY HOSPITAL

5301 E Huron River Dr
Ann Arbor, MI 48106

Medicare Provider Number: 230156

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	5,082	8.0	8.3	0.6	12.5	12.9	0.8	15.9	16.5	0.7
CONDITIONS:										
Acute Myocardial Infarction	163	16.0	23.2	5.1	18.4	27.0	5.5	21.5	30.4	5.6
Congestive Heart Failure	218	16.5	15.4	2.7	26.1	24.0	3.7	33.5	31.0	5.1
Pneumonia/Influenza	119	10.1	14.7	6.0	15.1	20.2	7.7	17.6	24.6	7.1
Chronic Obstructive Pulmonary Disease	25	4.0	8.2	*	12.0	13.5	*	24.0	18.3	*
Transient Cerebral Ischemia	75	0.0	1.8	2.2	0.0	3.9	4.0	4.0	6.2	4.4
Stroke	169	13.0	17.8	4.0	17.8	24.5	4.9	20.7	28.8	5.7
Hip Fracture	107	1.9	7.0	3.4	5.6	12.3	4.5	10.3	15.8	4.4
Sepsis	48	27.1	24.0	*	37.5	32.7	*	41.7	38.5	*
PROCEDURES:										
Angioplasty	70	1.4	3.4	3.7	1.4	4.6	4.6	2.9	5.9	5.3
Coronary Artery Bypass Graft	200	8.0	4.7	2.5	9.0	6.7	2.4	9.0	8.1	2.1
Initial Pacemaker Insertion	48	4.2	4.1	*	16.7	7.6	*	16.7	10.9	*
Carotid Endarterectomy	32	0.0	1.4	*	6.3	2.5	*	9.4	3.7	*
Hip Replacement/Reconstruction	147	2.0	2.2	2.4	2.7	4.0	2.9	4.1	5.5	2.6
Open Reduction of Hip Fracture	59	1.7	5.9	4.3	6.8	10.9	5.5	8.5	14.3	7.5
Prostatectomy	148	0.7	0.7	0.8	0.7	1.8	1.3	0.7	3.0	2.0
Cholecystectomy	89	0.0	2.0	2.0	1.1	3.5	2.6	1.1	4.4	3.0
Hysterectomy	58	0.0	0.5	1.1	0.0	1.3	2.1	1.7	2.2	2.1

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	663
Occupancy Rate	84
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	450
Percent of Physicians Board Certified Specialists	86
Medical Residents/Interns	104
Registered Nurses	1,101
Licensed Practical Nurses	39

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	Yes

**** Not used in calculating hospital mortality rates.**

ST JOSEPH MERCY HOSPITAL

Medicare Provider Number: 230156

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	4,887	8.2	9.1	0.6	12.8	14.0	0.7	16.1	17.7	0.8
CONDITIONS:										
Acute Myocardial Infarction	157	27.4	27.9	3.8	30.6	31.1	4.1	33.8	34.5	4.1
Congestive Heart Failure	207	13.5	16.4	3.1	28.0	24.9	3.6	33.8	31.8	3.5
Pneumonia/Influenza	89	11.2	15.2	5.9	22.5	20.8	4.7	24.7	25.1	4.8
Chronic Obstructive Pulmonary Disease	38	0.0	7.7	*	5.3	13.5	*	10.5	18.1	*
Transient Cerebral Ischemia	96	0.0	1.9	2.1	3.1	4.2	2.4	6.2	6.6	2.6
Stroke	182	13.7	21.1	4.5	19.8	28.2	5.0	23.6	32.8	5.2
Hip Fracture	121	5.8	8.0	3.7	8.3	14.5	4.5	18.2	18.5	3.7
Sepsis	35	31.4	30.0	*	40.0	37.6	*	48.6	43.6	*
PROCEDURES:										
Angioplasty	57	1.8	2.9	2.5	1.8	3.8	3.1	1.8	4.9	3.8
Coronary Artery Bypass Graft	189	6.3	5.8	1.8	6.9	7.7	2.3	7.4	9.0	3.0
Initial Pacemaker Insertion	46	4.3	4.0	*	6.5	6.9	*	6.5	9.8	*
Carotid Endarterectomy	22	0.0	1.5	*	0.0	2.7	*	0.0	4.0	*
Hip Replacement/Reconstruction	112	3.6	2.6	1.9	5.4	5.1	4.3	9.8	7.0	5.6
Open Reduction of Hip Fracture	68	5.9	7.8	5.9	7.4	14.6	6.8	16.2	18.9	6.3
Prostatectomy	188	0.5	0.8	0.7	1.1	1.9	1.3	2.7	3.2	1.5
Cholecystectomy	80	3.7	2.7	2.3	6.3	4.7	4.0	7.5	6.0	4.9
Hysterectomy	57	3.5	1.2	2.6	3.5	2.2	3.0	3.5	3.0	3.3

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	4,635	8.5	8.9	0.5	14.0	13.7	0.7	17.3	17.3	0.6
CONDITIONS:										
Acute Myocardial Infarction	154	22.7	27.6	5.0	27.3	31.1	4.8	31.8	34.5	4.2
Congestive Heart Failure	195	19.0	17.1	3.5	29.7	25.5	4.4	36.4	32.5	5.6
Pneumonia/Influenza	85	12.9	15.5	5.4	22.4	21.3	4.9	28.2	25.8	5.6
Chronic Obstructive Pulmonary Disease	65	16.9	12.7	5.3	27.7	20.0	7.2	33.8	25.2	10.2
Transient Cerebral Ischemia	92	3.3	1.9	1.9	4.3	4.2	2.1	5.4	6.5	3.0
Stroke	155	21.9	22.1	4.4	28.4	29.6	4.5	31.6	34.2	6.0
Hip Fracture	95	12.6	6.8	3.9	20.0	12.7	5.2	22.1	16.6	4.9
Sepsis	22	36.4	36.6	*	36.4	45.6	*	40.9	52.7	*
PROCEDURES:										
Angioplasty	60	1.7	4.3	4.5	3.3	5.4	5.3	3.3	6.5	5.7
Coronary Artery Bypass Graft	138	7.2	6.5	2.3	11.6	9.0	3.2	13.0	10.4	3.7
Initial Pacemaker Insertion	60	1.7	3.1	2.8	3.3	6.4	4.6	8.3	9.3	4.2
Carotid Endarterectomy	38	0.0	1.4	*	0.0	2.7	*	0.0	4.0	*
Hip Replacement/Reconstruction	111	0.9	1.4	1.8	0.9	2.8	2.6	2.7	3.9	2.5
Open Reduction of Hip Fracture	68	11.8	6.2	4.5	22.1	12.1	6.7	23.5	16.2	6.9
Prostatectomy	181	0.6	0.8	0.7	1.7	2.0	1.3	2.2	3.4	1.8
Cholecystectomy	81	4.9	3.3	2.4	6.2	5.8	3.1	8.6	7.5	3.7
Hysterectomy	60	0.0	0.9	1.7	1.7	1.9	2.2	3.3	2.8	2.6

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

Catherine McAuley Health System

Sponsored by the
Religious Sisters of Mercy
founded in 1831
by Catherine McAuley

5301 East Huron River Drive
P.O. Box 992
Ann Arbor, Michigan 48106
(313) 572-4025

January 3, 1991

Sandra Kappert
Health Care Financing Administration
Health Standards and Quality Bureau
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Ref: St. Joseph Mercy Hospital
5301 East Huron River Drive
Ann Arbor, Michigan 48106
Medicare Provider #230156
Medicare Hospital Mortality Report
Fiscal Year 1989

Dear Ms. Kappert:

We appreciate the opportunity to review the Health Care Financing Administration mortality report applicable to this health system prior to its proposed release in the Spring of 1991. This report embraces some changes in design and format intended to improve the validity of the analyses and to facilitate the interpretation of the data. These annual reports are recognized as part of an ongoing effort by HCFA to provide credible data that will prove valuable to health care professionals.

The Medicare file has particular advantages, including large volume, longitudinal outcome information, and the opportunity to accommodate to some degree the wide variation in risk factors within diagnostic categories. The persistent problems related to these annual reports are recognized by all parties: an inability to define severity variation within diagnostic categories, frequent changes in coding practices and definitions, and the need for more sensitive outcome measures (rather than relying totally on mortality).

Patients and patient advocates, as well as health care providers, must use great caution in the interpretation of the data provided. Wide variation is to be expected by chance alone and we would urge a return to the confidence interval format to assist the observer in this regard. Persistent clinical diversity, despite all efforts to achieve homogeneity in comparison groups, further complicates the analysis.

Setting all this aside, we applaud the Health Care Financing Administration for providing this information and for encouraging the continuing process of quality improvement in the health care arena.

Yours truly,

Charles F. Gehrke, M.D.
Chief of Medical Staff

Robert E. Laverty
President
Catherine McAuley Health System

ROK/lkm

ST LAWRENCE HOSPITAL

1210 W Saginaw St
Lansing, MI 48914

Medicare Provider Number: 230157

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,020	12.9	10.8	1.6	17.6	15.9	1.8	22.0	19.8	1.9
CONDITIONS:										
Acute Myocardial Infarction	55	18.2	27.0	11.9	23.6	30.4	10.7	29.1	33.8	9.0
Congestive Heart Failure	40	17.5	14.6	*	25.0	22.4	*	37.5	28.9	*
Pneumonia/Influenza	41	26.8	17.5	*	31.7	24.0	*	34.1	29.1	*
Chronic Obstructive Pulmonary Disease	6	16.7	6.9	*	16.7	11.0	*	16.7	14.9	*
Transient Cerebral Ischemia	5	0.0	3.0	*	0.0	7.2	*	0.0	11.7	*
Stroke	50	40.0	21.0	*	46.0	28.2	*	48.0	32.6	*
Hip Fracture	36	8.3	8.8	*	13.9	15.2	*	19.4	19.3	*
Sepsis	25	28.0	26.8	*	36.0	33.3	*	44.0	38.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	11	9.1	7.3	*	18.2	11.8	*	36.4	14.9	*
Carotid Endarterectomy	1	0.0	0.8	*	0.0	1.4	*	0.0	2.1	*
Hip Replacement/Reconstruction	15	6.7	2.9	*	6.7	5.4	*	6.7	7.1	*
Open Reduction of Hip Fracture	25	4.0	7.7	*	8.0	14.2	*	16.0	18.4	*
Prostatectomy	52	0.0	0.6	*	0.0	1.4	*	0.0	2.5	*
Cholecystectomy	22	9.1	3.2	*	9.1	6.0	*	9.1	8.0	*
Hysterectomy	13	0.0	0.4	*	0.0	0.9	*	0.0	1.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	515
Occupancy Rate	70
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	182
Percent of Physicians Board Certified Specialists	86
Medical Residents/Interns	20
Registered Nurses	157
Licensed Practical Nurses	15

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	Yes
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

ST LAWRENCE HOSPITAL

Medicare Provider Number: 230157

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,117	11.5	10.5	1.4	15.4	15.1	1.1	19.4	18.8	1.3
CONDITIONS:										
Acute Myocardial Infarction	47	21.3	29.2	*	23.4	32.5	*	25.5	36.1	*
Congestive Heart Failure	47	21.3	15.7	*	34.0	23.7	*	34.0	30.4	*
Pneumonia/Influenza	43	18.6	19.7	*	20.9	26.8	*	27.9	32.2	*
Chronic Obstructive Pulmonary Disease	9	0.0	7.8	*	11.1	12.7	*	11.1	17.4	*
Transient Cerebral Ischemia	9	0.0	1.2	*	0.0	2.6	*	0.0	4.0	*
Stroke	53	15.1	21.4	11.0	24.5	28.6	10.6	32.1	33.3	7.8
Hip Fracture	44	4.5	6.7	*	11.4	12.3	*	13.6	15.8	*
Sepsis	20	35.0	27.9	*	35.0	33.9	*	40.0	39.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	1.5	*	0.0	3.3	*	0.0	5.0	*
Carotid Endarterectomy	2	0.0	1.5	*	0.0	2.6	*	0.0	3.8	*
Hip Replacement/Reconstruction	32	3.1	4.2	*	12.5	8.0	*	12.5	11.0	*
Open Reduction of Hip Fracture	22	4.5	6.3	*	9.1	12.1	*	13.6	16.0	*
Prostatectomy	43	2.3	0.7	*	2.3	1.8	*	4.7	3.1	*
Cholecystectomy	20	0.0	2.5	*	0.0	4.5	*	0.0	5.8	*
Hysterectomy	9	0.0	0.2	*	0.0	0.4	*	0.0	0.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,097	8.8	9.2	1.0	13.1	13.9	1.2	17.8	17.8	1.2
CONDITIONS:										
Acute Myocardial Infarction	45	26.7	28.8	*	28.9	32.2	*	31.1	35.5	*
Congestive Heart Failure	57	17.5	17.3	5.3	26.3	26.1	6.1	31.6	33.3	6.3
Pneumonia/Influenza	41	19.5	17.3	*	24.4	23.1	*	36.6	27.8	*
Chronic Obstructive Pulmonary Disease	8	0.0	11.2	*	12.5	18.1	*	25.0	23.2	*
Transient Cerebral Ischemia	13	0.0	1.7	*	0.0	3.5	*	7.7	5.6	*
Stroke	36	16.7	22.3	*	19.4	29.1	*	25.0	33.6	*
Hip Fracture	43	7.0	7.8	*	11.6	13.9	*	14.0	17.8	*
Sepsis	16	25.0	27.4	*	25.0	34.8	*	37.5	40.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	0.0	5.8	*	0.0	10.3	*	14.3	14.2	*
Carotid Endarterectomy	2	0.0	1.3	*	0.0	2.4	*	0.0	3.5	*
Hip Replacement/Reconstruction	25	8.0	5.8	*	8.0	10.6	*	12.0	13.8	*
Open Reduction of Hip Fracture	23	4.3	6.6	*	8.7	12.4	*	8.7	16.3	*
Prostatectomy	56	1.8	1.3	1.8	1.8	3.4	2.6	1.8	5.8	4.1
Cholecystectomy	20	0.0	3.3	*	0.0	6.2	*	5.0	8.5	*
Hysterectomy	11	0.0	0.6	*	0.0	1.3	*	0.0	2.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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St. Lawrence
Hospital & Healthcare Services

Medicare Provider Number: 230157

COMMENTS ON THE HCFA MORTALITY DATA
ST. LAWRENCE HOSPITAL AND HEALTHCARE SERVICES
Lansing, Michigan
January 8, 1991

Dear Sirs:

Thank you for providing hospital-specific mortality information. In regard to the HCFA mortality report, we submit the following comments.

1. Two data discrepancies are noted in the HCFA data. Case specific corrections are listed separately. Both cases are listed by HCFA with an incorrect date of death; the correct date of death has been verified with our records.

2. We note that HCFA's change of data time period from calendar year to federal fiscal year resulted in duplicate reporting of data for the last quarter of 1989 in last year's report and this year's report. This created difficulty in analyzing data to use comparatively with analyses from past years.

3. It is noted that for patients with more than one admission during the year, HCFA has selected one admission at random for use in analysis, rather than selecting the last admission as in past years. This lack of correlation between the death date and the selected dates of hospitalization is misleading, and makes the analysis of deaths within 30, 90, and 180 days post-admission less meaningful.

4. We have identified this ongoing review process as a priority in determining and maintaining quality of care.

Sincerely,

Arthur Knueppel
President and Chief Executive Officer

Enc.

1210 W. Saginaw ☐ Lansing, Michigan 48915-1999 ☐ 517/372-3610
Division of Sisters of Mercy Health Corporation

ST LUKES HOSPITAL

705 Cooper
Saginaw, MI 48602

Medicare Provider Number: 230070

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,637	8.2	8.3	0.9	13.4	12.8	1.0	17.0	16.4	1.4
CONDITIONS:										
Acute Myocardial Infarction	76	27.6	25.4	7.5	35.5	28.4	8.9	38.2	31.6	9.5
Congestive Heart Failure	130	16.2	14.4	3.3	25.4	22.4	4.5	33.8	28.9	7.0
Pneumonia/Influenza	98	20.4	15.1	5.6	26.5	20.6	5.7	30.6	24.9	6.1
Chronic Obstructive Pulmonary Disease	23	13.0	6.6	*	17.4	13.0	*	17.4	18.6	*
Transient Cerebral Ischemia	54	5.6	2.2	3.4	5.6	4.8	3.1	7.4	7.6	3.6
Stroke	90	20.0	22.4	5.0	26.7	29.3	5.3	34.4	33.8	5.2
Hip Fracture	40	7.5	6.5	*	12.5	11.7	*	15.0	15.0	*
Sepsis	13	30.8	29.4	*	38.5	38.3	*	38.5	44.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	38	0.0	3.2	*	5.3	6.7	*	10.5	10.1	*
Carotid Endarterectomy	5	0.0	1.3	*	0.0	2.4	*	0.0	3.5	*
Hip Replacement/Reconstruction	62	4.8	2.9	3.0	8.1	5.9	3.5	8.1	8.3	4.1
Open Reduction of Hip Fracture	23	0.0	5.2	*	0.0	9.5	*	4.3	12.5	*
Prostatectomy	119	0.8	0.8	1.4	2.5	2.1	2.2	5.0	3.5	2.6
Cholecystectomy	93	1.1	3.3	2.8	6.5	6.2	3.3	7.5	8.4	3.0
Hysterectomy	6	0.0	1.3	*	0.0	2.6	*	0.0	3.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	298
Occupancy Rate	60
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	144
Percent of Physicians Board Certified Specialists	87
Medical Residents/Interns	0
Registered Nurses	275
Licensed Practical Nurses	101

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	Yes

**** Not used in calculating hospital mortality rates.**

ST LUKES HOSPITAL

Medicare Provider Number: 230070

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,578	8.7	8.7	0.9	13.3	13.2	0.7	16.7	16.8	0.7
CONDITIONS:										
Acute Myocardial Infarction	91	29.7	29.0	6.2	35.2	32.4	5.5	36.3	36.1	5.0
Congestive Heart Failure	150	20.0	14.6	4.2	29.3	22.6	5.1	36.0	29.3	5.2
Pneumonia/Influenza	72	11.1	16.0	6.5	18.1	21.7	5.6	23.6	26.0	5.5
Chronic Obstructive Pulmonary Disease	13	0.0	7.1	*	0.0	12.4	*	0.0	16.9	*
Transient Cerebral Ischemia	52	3.8	2.2	2.5	5.8	4.8	3.2	7.7	7.5	3.7
Stroke	87	20.7	20.6	4.3	31.0	27.6	6.8	34.5	32.3	6.2
Hip Fracture	53	5.7	7.9	4.3	15.1	14.1	4.9	20.8	17.9	6.4
Sepsis	12	25.0	26.8	*	50.0	35.6	*	50.0	41.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	33	0.0	3.9	*	3.0	7.3	*	6.1	10.6	*
Carotid Endarterectomy	2	0.0	2.5	*	0.0	4.9	*	0.0	7.5	*
Hip Replacement/Reconstruction	64	1.6	2.7	2.3	6.3	5.5	2.9	9.4	7.7	4.1
Open Reduction of Hip Fracture	28	7.1	8.5	*	17.9	15.5	*	21.4	19.7	*
Prostatectomy	107	0.9	0.9	1.0	1.9	2.2	1.7	2.8	3.8	2.5
Cholecystectomy	60	1.7	3.3	2.7	5.0	5.9	3.5	5.0	7.8	4.7
Hysterectomy	3	0.0	0.8	*	0.0	1.8	*	0.0	2.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,258	9.1	9.1	0.8	13.1	13.7	1.1	16.1	17.4	1.3
CONDITIONS:										
Acute Myocardial Infarction	74	24.3	30.3	10.7	27.0	33.9	11.7	29.7	37.5	12.6
Congestive Heart Failure	113	17.7	16.6	3.6	25.7	25.1	4.1	35.4	32.1	5.5
Pneumonia/Influenza	67	17.9	16.6	4.8	20.9	22.3	6.0	20.9	27.0	8.2
Chronic Obstructive Pulmonary Disease	28	17.9	11.7	*	21.4	19.0	*	25.0	24.8	*
Transient Cerebral Ischemia	52	1.9	2.3	2.5	5.8	5.1	3.2	5.8	8.0	4.8
Stroke	81	23.5	23.9	4.9	27.2	30.9	6.3	35.8	35.7	5.4
Hip Fracture	63	4.8	6.7	3.9	4.8	12.2	5.4	6.3	15.7	6.7
Sepsis	17	17.6	22.5	*	23.5	29.1	*	29.4	34.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	22	0.0	6.2	*	9.1	11.6	*	18.2	16.0	*
Carotid Endarterectomy	7	0.0	2.1	*	0.0	4.1	*	0.0	6.0	*
Hip Replacement/Reconstruction	60	3.3	3.1	2.3	3.3	6.1	3.6	3.3	8.2	4.8
Open Reduction of Hip Fracture	32	6.3	6.5	*	6.3	12.2	*	6.3	15.9	*
Prostatectomy	73	1.4	1.1	1.2	1.4	2.5	2.2	4.1	4.2	2.4
Cholecystectomy	63	3.2	2.7	2.6	4.8	4.8	2.9	4.8	6.1	3.2
Hysterectomy	1	0.0	0.7	*	0.0	1.0	*	0.0	1.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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stLukes

Provider #23-0070
January 7, 1991

Mrs. Sandra Kappert
Health Standards and Quality Bureau
Health Care Financing Administration
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Mrs. Kappert,

We appreciate the opportunity to review and comment on the Mortality Statistics prior to their publication. The enclosures provided were extremely beneficial in helping to analyze the data and formulate our comments. Quality patient care is the primary goal of St. Luke's and is actively demonstrated by the the quality assurance program that is operational at all levels of our facility.

Analysis of the 1989 mortality data for all categories/causes, demonstrates the difference between the observed and predicted mortality rates is insignificant at the 99%, 95% and 75% percent confidence levels. A review of the 1988 and 1987 data also illustarates that any difference between observed and predicted mortality rates is insignificant at the confidence levels mentioned above.

In our active Quality Assurance program, the Medical Staff Committees review all deaths that occur at St. Luke's Hospital to assure the appropriateness and adequacy of care given. The 1989 Mortality Statistics will also be shared with the appropriate Medical Staff Committeess as a part of our ongoing quality assurance activities.

Once again, thank you for the opportunity to comment on the Mortality Statistics.

Sincerely,

Helen Thompson, MBA, RRA
Planning Director

ST. LUKE'S HOSPITAL
700 COOPER AVENUE SAGINAW MICHIGAN 48602 TELEPHONE (517) 771-6000

ST MARY HOSPITAL

36475 Five Mile Road
Livonia, MI 48154

Medicare Provider Number: 230002

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,979	10.0	10.6	0.8	15.4	15.8	1.1	18.6	19.8	1.2
CONDITIONS:										
Acute Myocardial Infarction	140	20.0	27.0	6.6	25.7	30.8	7.2	27.1	34.3	7.5
Congestive Heart Failure	172	15.7	16.0	2.8	24.4	24.1	3.4	30.8	30.9	3.6
Pneumonia/Influenza	107	15.0	18.5	6.0	23.4	24.9	4.7	29.9	29.8	4.5
Chronic Obstructive Pulmonary Disease	30	13.3	11.8	*	23.3	18.3	*	26.7	23.5	*
Transient Cerebral Ischemia	80	2.5	1.6	1.8	2.5	3.8	2.6	7.5	6.2	3.3
Stroke	145	23.4	22.5	3.7	29.0	30.4	5.2	32.4	35.2	4.5
Hip Fracture	82	13.4	7.5	5.3	17.1	13.1	6.7	22.0	16.8	6.4
Sepsis	28	32.1	25.1	*	32.1	34.8	*	32.1	40.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	17	0.0	2.1	*	0.0	4.5	*	5.9	7.0	*
Carotid Endarterectomy	13	0.0	1.3	*	0.0	2.3	*	0.0	3.2	*
Hip Replacement/Reconstruction	47	10.6	3.4	*	14.9	6.3	*	21.3	8.3	*
Open Reduction of Hip Fracture	58	10.3	6.9	5.4	15.5	12.6	6.9	19.0	16.4	5.7
Prostatectomy	159	0.0	1.1	1.2	1.3	2.5	1.5	1.9	4.0	2.2
Cholecystectomy	54	1.9	1.9	2.3	1.9	3.0	2.8	1.9	3.8	3.1
Hysterectomy	13	0.0	0.2	*	0.0	0.3	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	244
Occupancy Rate	86
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	281
Percent of Physicians Board Certified Specialists	65
Medical Residents/Interns	0
Registered Nurses	273
Licensed Practical Nurses	40

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

ST MARY HOSPITAL

Medicare Provider Number: 230002

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,982	9.0	10.3	0.7	13.7	15.5	0.8	17.2	19.4	0.9
CONDITIONS:										
Acute Myocardial Infarction	119	25.2	27.8	4.9	27.7	31.0	5.5	31.1	34.4	6.3
Congestive Heart Failure	170	19.4	18.2	3.4	27.6	27.2	3.4	32.9	34.5	3.9
Pneumonia/Influenza	153	16.3	19.9	5.7	24.8	26.6	5.1	30.7	31.9	3.9
Chronic Obstructive Pulmonary Disease	87	10.3	11.6	4.1	17.2	18.8	5.3	19.5	24.6	7.9
Transient Cerebral Ischemia	71	1.4	2.0	2.2	2.8	4.6	3.9	4.2	7.7	5.7
Stroke	134	21.6	22.2	5.9	26.1	29.7	6.2	30.6	34.5	7.7
Hip Fracture	85	4.7	7.0	3.3	9.4	12.3	4.2	16.5	15.6	4.0
Sepsis	30	40.0	27.5	*	50.0	35.8	*	50.0	41.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	100.0	1.6	*	100.0	2.9	*	100.0	4.4	*
Carotid Endarterectomy	16	6.3	1.4	*	6.3	2.4	*	6.3	3.5	*
Hip Replacement/Reconstruction	40	5.0	4.9	*	7.5	9.0	*	12.5	11.6	*
Open Reduction of Hip Fracture	43	2.3	6.1	*	9.3	11.0	*	14.0	14.1	*
Prostatectomy	144	0.7	1.0	0.9	2.1	2.4	1.5	2.8	3.9	2.2
Cholecystectomy	55	1.8	2.8	2.4	3.6	4.5	2.9	5.5	5.8	3.2
Hysterectomy	14	0.0	0.1	*	0.0	0.2	*	0.0	0.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,628	9.9	10.9	0.9	15.0	16.2	1.0	18.8	20.1	1.2
CONDITIONS:										
Acute Myocardial Infarction	134	21.6	28.9	7.8	26.1	32.4	8.1	28.4	35.8	8.9
Congestive Heart Failure	173	17.9	18.5	3.0	28.3	27.4	3.6	35.8	34.6	3.9
Pneumonia/Influenza	97	23.7	18.1	6.7	32.0	24.2	8.0	37.1	29.2	7.3
Chronic Obstructive Pulmonary Disease	87	12.6	15.4	6.7	20.7	23.7	6.7	28.7	29.6	5.1
Transient Cerebral Ischemia	81	0.0	2.2	2.0	2.5	4.8	3.3	2.5	7.5	4.4
Stroke	115	20.9	21.6	4.0	28.7	29.8	4.5	33.9	34.6	4.5
Hip Fracture	77	9.1	9.3	3.7	16.9	15.6	4.8	23.4	19.3	7.1
Sepsis	28	28.6	31.4	*	42.9	43.2	*	50.0	49.8	*
PROCEDURES:										
Angioplasty	1	0.0	1.0	*	0.0	1.5	*	0.0	2.3	*
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	27	0.0	4.3	*	0.0	8.5	*	3.7	12.1	*
Carotid Endarterectomy	18	0.0	1.8	*	0.0	3.5	*	0.0	5.1	*
Hip Replacement/Reconstruction	35	2.9	5.5	*	8.6	9.7	*	11.4	12.2	*
Open Reduction of Hip Fracture	46	6.5	8.6	*	15.2	15.4	*	23.9	19.3	*
Prostatectomy	156	1.9	1.2	1.4	2.6	2.6	1.7	3.8	4.2	2.6
Cholecystectomy	58	1.7	2.2	2.4	3.4	4.0	3.7	3.4	5.5	3.9
Hysterectomy	11	0.0	1.0	*	0.0	2.1	*	0.0	3.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

ST MARYS HEALTH SERVICES

200 Jefferson St SE
Grand Rapids, MI 49503

Medicare Provider Number: 230059

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,864	9.0	8.8	0.8	14.4	13.4	0.8	18.5	17.0	1.0
CONDITIONS:										
Acute Myocardial Infarction	76	25.0	26.9	5.9	26.3	30.2	6.4	31.6	33.5	5.9
Congestive Heart Failure	151	14.6	14.1	3.1	21.9	21.7	3.5	29.8	28.3	4.8
Pneumonia/Influenza	152	19.7	15.2	4.5	27.6	20.7	5.9	32.9	25.0	6.2
Chronic Obstructive Pulmonary Disease	23	13.0	8.5	*	21.7	14.0	*	30.4	18.9	*
Transient Cerebral Ischemia	15	0.0	2.3	*	0.0	5.4	*	6.7	8.8	*
Stroke	97	19.6	19.8	4.2	24.7	26.8	5.7	28.9	31.2	5.5
Hip Fracture	150	4.7	7.2	3.0	14.0	12.7	2.9	17.3	16.3	4.0
Sepsis	30	23.3	24.5	*	33.3	33.1	*	40.0	39.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	1	0.0	4.8	*	0.0	7.7	*	0.0	9.4	*
Initial Pacemaker Insertion	27	7.4	3.6	*	7.4	7.2	*	7.4	10.6	*
Carotid Endarterectomy	20	0.0	1.5	*	0.0	2.9	*	0.0	4.3	*
Hip Replacement/Reconstruction	121	2.5	3.4	1.8	7.4	6.2	2.5	9.9	8.2	3.9
Open Reduction of Hip Fracture	78	2.6	6.5	4.3	11.5	11.9	3.9	15.4	15.4	4.6
Prostatectomy	163	0.6	0.8	0.8	2.5	1.8	1.2	4.3	3.1	2.0
Cholecystectomy	67	1.5	2.8	3.2	6.0	5.2	3.3	9.0	6.9	4.8
Hysterectomy	28	0.0	0.5	*	0.0	1.1	*	0.0	1.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	295
Occupancy Rate	63
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	264
Percent of Physicians Board Certified Specialists	82
Medical Residents/Interns	39
Registered Nurses	480
Licensed Practical Nurses	75

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	Yes
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

ST MARYS HEALTH SERVICES

Medicare Provider Number: 230059

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,881	10.2	8.9	0.6	15.0	13.6	0.7	19.2	17.1	0.8
CONDITIONS:										
Acute Myocardial Infarction	86	29.1	25.0	4.9	30.2	28.0	5.0	33.7	31.2	5.1
Congestive Heart Failure	134	19.4	15.5	6.5	29.9	23.5	7.4	35.8	30.1	6.6
Pneumonia/Influenza	139	18.7	15.6	4.5	26.6	20.9	5.2	30.9	25.2	6.2
Chronic Obstructive Pulmonary Disease	24	0.0	6.0	*	0.0	10.5	*	8.3	14.6	*
Transient Cerebral Ischemia	17	0.0	1.8	*	0.0	4.0	*	0.0	6.8	*
Stroke	113	21.2	19.5	3.9	23.9	26.6	4.6	26.5	31.2	5.6
Hip Fracture	129	11.6	7.0	3.4	20.9	12.7	4.7	22.5	16.2	5.1
Sepsis	35	20.0	24.3	*	25.7	32.0	*	34.3	37.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	1	0.0	12.9	*	0.0	16.2	*	0.0	17.4	*
Initial Pacemaker Insertion	19	10.5	4.8	*	10.5	8.7	*	15.8	12.0	*
Carotid Endarterectomy	15	6.7	1.8	*	6.7	3.3	*	13.3	4.8	*
Hip Replacement/Reconstruction	108	4.6	2.6	2.0	13.0	4.9	4.0	13.9	6.4	4.3
Open Reduction of Hip Fracture	73	12.3	6.5	5.0	16.4	12.2	5.2	17.8	15.9	4.7
Prostatectomy	183	1.1	1.0	1.3	1.6	2.1	2.1	3.3	3.2	2.0
Cholecystectomy	78	0.0	2.7	2.4	3.8	5.0	3.6	5.1	6.4	4.0
Hysterectomy	35	0.0	0.5	*	0.0	1.1	*	0.0	1.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,724	11.0	9.3	0.8	16.7	14.2	1.1	20.6	17.9	1.1
CONDITIONS:										
Acute Myocardial Infarction	102	29.4	25.5	6.2	33.3	29.0	5.6	35.3	32.4	5.1
Congestive Heart Failure	138	18.1	16.2	3.9	27.5	24.5	4.5	36.2	31.3	5.9
Pneumonia/Influenza	100	21.0	18.3	7.4	32.0	24.3	10.3	34.0	29.0	8.4
Chronic Obstructive Pulmonary Disease	38	15.8	11.1	*	21.1	18.1	*	34.2	23.5	*
Transient Cerebral Ischemia	28	0.0	1.6	*	0.0	3.4	*	0.0	5.3	*
Stroke	114	24.6	21.3	6.8	36.0	28.3	8.2	40.4	32.7	7.5
Hip Fracture	139	11.5	6.9	3.4	15.8	12.7	4.5	23.0	16.4	5.1
Sepsis	25	24.0	29.3	*	28.0	37.2	*	32.0	43.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	17	0.0	4.3	*	11.8	7.9	*	11.8	11.0	*
Carotid Endarterectomy	11	0.0	1.7	*	0.0	3.2	*	0.0	4.6	*
Hip Replacement/Reconstruction	106	5.7	3.6	3.6	8.5	6.7	4.0	9.4	8.8	3.8
Open Reduction of Hip Fracture	79	12.7	6.0	3.7	17.7	11.6	5.3	27.8	15.4	6.5
Prostatectomy	166	4.2	0.9	2.9	5.4	2.3	2.9	6.0	3.9	2.9
Cholecystectomy	61	11.5	2.8	5.0	11.5	4.9	4.3	11.5	6.2	4.3
Hysterectomy	11	0.0	0.4	*	0.0	0.7	*	0.0	1.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

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SAINT MARY'S
HEALTH SERVICES

200 Jefferson S.E.
Grand Rapids
Michigan 49503
616 774-6090

January 14, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra K. Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Medicare Provider #230059

Dear Mrs. Kappert:

This letter is in response to the Medicare Mortality Data scheduled for public release in Spring 1991. We have reviewed this data and the statistical methodology used. The number of reported deaths for Saint Mary's Health Services appears accurate. For obvious reasons, we cannot verify the number of deaths which occurred following discharge from our hospital.

Mortality review is considered one important component of our comprehensive quality assurance plan and is conducted regularly. It was noted that there were two categories in which Saint Mary's Health Services' observed rate was above the predicted mortality rate. However, when determining the 95 percent confidence interval as instructed by HCFA, these two categories fell within the range, thus indicating the difference between the observed and expected rates to be the result of random variation.

We continue to have serious reservations in regards to the use of Medicare Mortality Data as a meaningful guide to a hospital's performance. It is designed to raise quesions that can only be answered through further study by each hospital due to the differences in patient populations.

We are pleased that HCFA continues to monitor and improve the data used for the analysis. We appreciate this opportunity to comment and your sharing this information with us before making it available to the public.

Sincerely,

William A. Himmelsbach, Jr.
President and CEO

WAH/pc

ST MARYS MEDICAL CENTER

830 S Jefferson
Saginaw, MI 48601

Medicare Provider Number: 230077

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,453	7.9	7.1	0.8	12.2	10.9	1.1	15.2	14.1	1.3
CONDITIONS:										
Acute Myocardial Infarction	30	26.7	26.5	*	26.7	29.1	*	30.0	32.1	*
Congestive Heart Failure	91	22.0	14.5	4.6	29.7	22.6	4.8	30.8	29.4	4.9
Pneumonia/Influenza	57	14.0	16.3	7.5	21.1	22.1	7.3	26.3	26.8	6.1
Chronic Obstructive Pulmonary Disease	32	6.3	6.5	*	12.5	11.2	*	18.8	15.5	*
Transient Cerebral Ischemia	92	0.0	1.9	1.9	1.1	4.0	3.0	2.2	6.2	3.8
Stroke	66	28.8	24.9	6.7	37.9	31.2	9.6	43.9	35.7	11.3
Hip Fracture	18	0.0	5.9	*	0.0	10.5	*	5.6	13.6	*
Sepsis	12	25.0	25.4	*	33.3	31.5	*	33.3	36.9	*
PROCEDURES:										
Angioplasty	80	1.2	1.1	1.2	1.2	1.6	1.6	1.2	2.3	2.2
Coronary Artery Bypass Graft	248	2.8	4.2	2.0	4.8	6.1	2.7	5.6	7.5	2.3
Initial Pacemaker Insertion	35	0.0	2.3	*	0.0	4.8	*	2.9	7.2	*
Carotid Endarterectomy	77	0.0	1.4	2.0	0.0	2.6	3.2	2.6	3.8	2.5
Hip Replacement/Reconstruction	29	3.4	2.7	*	3.4	5.1	*	6.9	7.0	*
Open Reduction of Hip Fracture	10	0.0	5.1	*	0.0	9.8	*	0.0	13.2	*
Prostatectomy	70	0.0	1.0	1.7	0.0	2.3	3.7	4.3	3.9	3.1
Cholecystectomy	37	2.7	2.9	*	5.4	5.6	*	8.1	7.7	*
Hysterectomy	1	0.0	0.8	*	0.0	2.1	*	0.0	3.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	261
Occupancy Rate	79
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	112
Percent of Physicians Board Certified Specialists	76
Medical Residents/Interns	0
Registered Nurses	292
Licensed Practical Nurses	151

SPECIALTY SERVICES:

Burn Unit	Yes
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	Yes
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

ST MARYS MEDICAL CENTER

Medicare Provider Number: 230077

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,231	8.6	7.5	0.8	12.6	11.4	0.8	15.2	14.6	0.8
CONDITIONS:										
Acute Myocardial Infarction	54	27.8	24.6	6.6	27.8	27.8	6.2	29.6	31.3	6.5
Congestive Heart Failure	63	23.8	15.8	9.1	28.6	23.5	9.0	33.3	30.1	6.8
Pneumonia/Influenza	44	13.6	17.1	*	18.2	22.8	*	18.2	27.4	*
Chronic Obstructive Pulmonary Disease	38	13.2	10.7	*	21.1	17.0	*	21.1	22.4	*
Transient Cerebral Ischemia	106	3.8	1.7	1.8	3.8	3.3	2.1	5.7	4.9	2.2
Stroke	75	22.7	23.6	6.2	37.3	30.1	7.1	37.3	34.7	7.6
Hip Fracture	23	4.3	6.2	*	4.3	10.8	*	4.3	13.8	*
Sepsis	16	25.0	27.0	*	31.3	35.5	*	31.3	41.6	*
PROCEDURES:										
Angioplasty	53	1.9	3.2	2.9	1.9	3.9	3.3	1.9	4.9	3.9
Coronary Artery Bypass Graft	190	4.7	5.3	2.0	5.3	7.4	2.8	5.8	8.8	3.3
Initial Pacemaker Insertion	22	0.0	2.5	*	4.5	4.9	*	9.1	7.2	*
Carotid Endarterectomy	82	0.0	1.7	2.1	1.2	3.1	2.6	2.4	4.6	3.0
Hip Replacement/Reconstruction	21	4.8	2.0	*	4.8	3.7	*	4.8	4.8	*
Open Reduction of Hip Fracture	15	0.0	5.4	*	0.0	10.0	*	0.0	12.9	*
Prostatectomy	56	0.0	1.2	1.8	0.0	2.9	3.6	3.6	4.8	3.1
Cholecystectomy	33	9.1	4.5	*	15.2	8.2	*	15.2	10.6	*
Hysterectomy	2	50.0	4.8	*	50.0	10.0	*	50.0	14.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,368	8.6	7.6	0.9	12.3	11.9	0.8	15.5	15.2	0.8
CONDITIONS:										
Acute Myocardial Infarction	50	28.0	25.8	*	34.0	28.7	*	36.0	31.8	*
Congestive Heart Failure	91	15.4	16.5	4.5	24.2	24.6	5.4	30.8	31.3	6.5
Pneumonia/Influenza	57	21.1	18.2	6.2	28.1	24.2	6.2	28.1	29.1	6.2
Chronic Obstructive Pulmonary Disease	29	3.4	12.7	*	6.9	19.5	*	6.9	24.6	*
Transient Cerebral Ischemia	92	1.1	1.9	1.6	3.3	3.9	2.1	5.4	6.0	2.8
Stroke	59	35.6	22.9	9.8	37.3	30.4	9.2	44.1	35.1	9.2
Hip Fracture	26	19.2	7.0	*	23.1	12.3	*	30.8	15.6	*
Sepsis	7	0.0	29.7	*	0.0	37.1	*	0.0	43.0	*
PROCEDURES:										
Angioplasty	42	0.0	2.7	*	2.4	3.5	*	2.4	4.6	*
Coronary Artery Bypass Graft	163	1.2	6.0	2.2	1.2	8.3	2.8	1.2	9.7	3.5
Initial Pacemaker Insertion	32	3.1	3.1	*	3.1	6.3	*	3.1	9.3	*
Carotid Endarterectomy	71	1.4	1.6	1.6	2.8	3.1	2.1	4.2	4.4	2.4
Hip Replacement/Reconstruction	23	8.7	3.4	*	8.7	6.7	*	13.0	9.1	*
Open Reduction of Hip Fracture	16	12.5	6.7	*	18.8	12.4	*	31.3	16.0	*
Prostatectomy	46	0.0	0.9	*	0.0	2.3	*	0.0	4.0	*
Cholecystectomy	32	6.3	2.4	*	9.4	3.9	*	9.4	4.9	*
Hysterectomy	1	0.0	0.5	*	0.0	0.9	*	0.0	1.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

STANDISH COMMUNITY HOSPITAL

Box 579 805 W Cedar Street
Standish, MI 48658

Medicare Provider Number: 230205

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	339	8.3	9.9	2.3	13.6	14.5	2.0	18.0	18.3	2.3
CONDITIONS:										
Acute Myocardial Infarction	17	41.2	27.6	*	52.9	30.9	*	52.9	34.5	*
Congestive Heart Failure	19	15.8	17.0	*	26.3	26.1	*	31.6	33.3	*
Pneumonia/Influenza	16	12.5	16.4	*	25.0	23.2	*	37.5	28.5	*
Chronic Obstructive Pulmonary Disease	7	0.0	4.9	*	0.0	8.6	*	0.0	12.0	*
Transient Cerebral Ischemia	2	0.0	1.8	*	0.0	3.8	*	0.0	5.9	*
Stroke	14	7.1	19.4	*	21.4	24.9	*	21.4	29.1	*
Hip Fracture	3	0.0	6.8	*	0.0	12.5	*	0.0	16.2	*
Sepsis	6	50.0	30.4	*	66.7	39.7	*	66.7	48.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	13	7.7	6.0	*	7.7	9.1	*	7.7	11.8	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	2.1	*	0.0	4.2	*	0.0	5.9	*
Open Reduction of Hip Fracture	2	0.0	8.0	*	0.0	15.1	*	0.0	19.9	*
Prostatectomy	5	0.0	1.7	*	20.0	4.1	*	20.0	6.7	*
Cholecystectomy	8	0.0	1.0	*	0.0	1.5	*	0.0	2.0	*
Hysterectomy	2	0.0	3.4	*	0.0	7.4	*	0.0	11.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	81
Occupancy Rate	65
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	13
Percent of Physicians Board Certified Specialists	100
Medical Residents/Interns	0
Registered Nurses	18
Licensed Practical Nurses	24

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

STANDISH COMMUNITY HOSPITAL

Medicare Provider Number: 230205

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	307	16.3	11.8	2.6	20.8	16.9	2.6	24.4	20.9	2.7
CONDITIONS:										
Acute Myocardial Infarction	14	42.9	28.2	*	42.9	31.3	*	57.1	34.7	*
Congestive Heart Failure	25	40.0	14.4	*	52.0	21.9	*	56.0	28.3	*
Pneumonia/Influenza	27	14.8	18.3	*	18.5	24.6	*	22.2	29.4	*
Chronic Obstructive Pulmonary Disease	5	0.0	3.9	*	0.0	7.9	*	0.0	11.5	*
Transient Cerebral Ischemia	6	0.0	1.8	*	0.0	3.9	*	0.0	6.2	*
Stroke	9	22.2	24.8	*	22.2	33.5	*	22.2	39.2	*
Hip Fracture	8	25.0	7.9	*	25.0	14.1	*	37.5	18.5	*
Sepsis	4	50.0	31.3	*	75.0	40.0	*	75.0	48.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	11	0.0	2.6	*	0.0	5.5	*	0.0	8.6	*
Carotid Endarterectomy	3	0.0	2.1	*	0.0	4.4	*	0.0	6.5	*
Hip Replacement/Reconstruction	3	33.3	4.6	*	33.3	8.4	*	33.3	11.2	*
Open Reduction of Hip Fracture	5	20.0	8.5	*	20.0	16.0	*	40.0	21.2	*
Prostatectomy	6	0.0	0.6	*	0.0	1.5	*	0.0	2.6	*
Cholecystectomy	5	0.0	1.8	*	0.0	3.4	*	0.0	4.6	*
Hysterectomy	1	0.0	0.9	*	0.0	1.5	*	0.0	1.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	340	10.9	10.2	1.9	12.4	15.2	2.3	16.8	19.1	2.4
CONDITIONS:										
Acute Myocardial Infarction	11	45.5	28.2	*	45.5	31.2	*	45.5	34.5	*
Congestive Heart Failure	19	10.5	15.9	*	26.3	24.2	*	36.8	31.1	*
Pneumonia/Influenza	30	10.0	15.7	*	10.0	21.6	*	16.7	26.3	*
Chronic Obstructive Pulmonary Disease	5	0.0	10.4	*	0.0	20.0	*	40.0	28.1	*
Transient Cerebral Ischemia	6	0.0	2.2	*	16.7	4.9	*	16.7	7.6	*
Stroke	20	35.0	22.0	*	35.0	28.1	*	40.0	33.0	*
Hip Fracture	5	20.0	6.1	*	20.0	10.5	*	20.0	13.5	*
Sepsis	2	50.0	15.3	*	50.0	20.7	*	50.0	26.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	6	0.0	2.1	*	0.0	4.9	*	0.0	8.0	*
Carotid Endarterectomy	3	0.0	2.7	*	0.0	5.8	*	0.0	9.2	*
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	5	20.0	5.3	*	20.0	9.6	*	20.0	12.6	*
Prostatectomy	2	0.0	1.0	*	0.0	2.8	*	0.0	5.4	*
Cholecystectomy	2	0.0	21.0	*	0.0	29.1	*	0.0	32.7	*
Hysterectomy	2	0.0	0.4	*	0.0	0.6	*	0.0	0.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

STRAITH MEMORIAL HOSPITAL

23901 Lahser
Southfield, MI 48075

Medicare Provider Number: 230071

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	176	0.0	0.4	0.6	0.0	0.8	1.0	0.6	1.3	1.5
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1989

Total Beds	34
Ownership/Control	Private, Non-Profit
STAFFING:	
Medical Residents/Interns	2
Registered Nurses	30
Licensed Practical Nurses	0

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	No
Hospice	No
Intensive Care Unit	No
Organ Transplant	Yes
Rehabilitation	No
Shock Trauma	No

**** Not used in calculating hospital mortality rates.**

STRAITH MEMORIAL HOSPITAL

Medicare Provider Number: 230071

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	171	0.0	0.3	0.7	1.2	0.6	0.7	2.3	1.0	1.1
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURE:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	156	0.0	0.4	0.6	0.6	0.9	0.9	0.6	1.4	1.1
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

STURGIS HOSPITAL

916 Myrtle Ave
Sturgis, MI 49091

Medicare Provider Number: 230096

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	576	8.7	7.8	1.4	13.4	12.0	1.9	16.1	15.4	2.0
CONDITIONS:										
Acute Myocardial Infarction	14	14.3	22.6	*	14.3	25.3	*	21.4	28.4	*
Congestive Heart Failure	24	12.5	13.4	*	20.8	21.0	*	20.8	27.5	*
Pneumonia/Influenza	30	10.0	12.7	*	20.0	17.6	*	20.0	21.5	*
Chronic Obstructive Pulmonary Disease	7	14.3	9.9	*	28.6	16.9	*	28.6	22.3	*
Transient Cerebral Ischemia	11	9.1	2.5	*	18.2	5.9	*	18.2	9.7	*
Stroke	14	42.9	25.5	*	42.9	31.4	*	42.9	35.8	*
Hip Fracture	25	8.0	4.9	*	8.0	9.0	*	12.0	11.9	*
Sepsis	5	40.0	26.5	*	40.0	31.6	*	40.0	37.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	12	0.0	7.3	*	8.3	13.0	*	8.3	16.6	*
Open Reduction of Hip Fracture	5	20.0	4.5	*	20.0	8.4	*	20.0	11.0	*
Prostatectomy	39	0.0	0.7	*	0.0	1.7	*	2.6	2.8	*
Cholecystectomy	18	11.1	1.4	*	16.7	2.4	*	16.7	3.2	*
Hysterectomy	12	8.3	0.6	*	8.3	1.2	*	16.7	1.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	57
Occupancy Rate	46
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	24
Percent of Physicians Board Certified Specialists	92
Medical Residents/Interns	0
Registered Nurses	39
Licensed Practical Nurses	13

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

STURGIS HOSPITAL

Medicare Provider Number: 230096

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	501	12.2	9.4	2.0	18.2	14.1	2.1	21.2	17.9	2.4
CONDITIONS:										
Acute Myocardial Infarction	11	27.3	30.7	*	54.5	34.8	*	54.5	38.8	*
Congestive Heart Failure	21	19.0	16.4	*	23.8	24.4	*	38.1	31.2	*
Pneumonia/Influenza	40	15.0	14.2	*	20.0	19.4	*	22.5	23.5	*
Chronic Obstructive Pulmonary Disease	7	0.0	5.9	*	14.3	11.8	*	28.6	17.3	*
Transient Cerebral Ischemia	6	0.0	1.8	*	0.0	3.9	*	16.7	6.2	*
Stroke	16	31.3	16.3	*	37.5	23.1	*	43.8	27.1	*
Hip Fracture	15	6.7	8.8	*	20.0	15.2	*	33.3	19.3	*
Sepsis	1	100.0	30.1	*	100.0	34.8	*	100.0	38.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	3	33.3	4.3	*	33.3	8.5	*	33.3	11.6	*
Open Reduction of Hip Fracture	1	0.0	4.0	*	0.0	7.8	*	0.0	10.5	*
Prostatectomy	31	0.0	0.7	*	0.0	1.7	*	0.0	2.9	*
Cholecystectomy	7	14.3	3.3	*	14.3	6.0	*	14.3	7.3	*
Hysterectomy	5	0.0	0.8	*	0.0	1.9	*	0.0	3.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	475	12.4	9.1	2.0	16.4	13.4	2.2	19.8	17.0	2.1
CONDITIONS:										
Acute Myocardial Infarction	15	53.3	27.3	*	60.0	31.4	*	60.0	35.6	*
Congestive Heart Failure	21	28.6	15.9	*	42.9	24.0	*	47.6	31.0	*
Pneumonia/Influenza	37	10.8	12.9	*	16.2	17.9	*	21.6	22.1	*
Chronic Obstructive Pulmonary Disease	6	16.7	7.1	*	16.7	12.8	*	16.7	18.0	*
Transient Cerebral Ischemia	8	12.5	2.0	*	12.5	4.4	*	12.5	7.1	*
Stroke	17	29.4	14.9	*	41.2	20.6	*	41.2	24.5	*
Hip Fracture	9	0.0	6.7	*	22.2	11.9	*	22.2	15.4	*
Sepsis	5	0.0	30.3	*	20.0	36.8	*	20.0	42.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	0.0	5.5	*	0.0	9.7	*	0.0	12.3	*
Open Reduction of Hip Fracture	1	0.0	3.7	*	0.0	7.7	*	0.0	10.8	*
Prostatectomy	28	0.0	0.8	*	7.1	2.0	*	7.1	3.4	*
Cholecystectomy	10	0.0	1.4	*	0.0	2.6	*	0.0	3.7	*
Hysterectomy	5	0.0	1.4	*	0.0	2.9	*	0.0	4.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

TAWAS ST JOSEPH HOSPITAL

200 Hemlock
Tawas City, MI 48763

Medicare Provider Number: 230100

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	863	8.6	8.2	1.0	12.7	12.3	1.5	14.8	15.8	1.5
CONDITIONS:										
Acute Myocardial Infarction	34	26.5	23.7	*	29.4	26.7	*	32.4	30.0	*
Congestive Heart Failure	55	20.0	14.5	10.6	27.3	22.6	9.3	32.7	29.5	8.8
Pneumonia/Influenza	57	19.3	16.9	6.0	26.3	23.0	6.3	29.8	27.7	8.1
Chronic Obstructive Pulmonary Disease	11	27.3	7.0	*	27.3	13.0	*	45.5	18.6	*
Transient Cerebral Ischemia	9	11.1	1.8	*	22.2	4.1	*	22.2	6.6	*
Stroke	9	33.3	20.3	*	33.3	26.1	*	33.3	30.5	*
Hip Fracture	14	7.1	7.5	*	7.1	13.6	*	7.1	17.5	*
Sepsis	8	0.0	27.9	*	37.5	32.8	*	37.5	37.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	21	4.8	4.9	*	9.5	10.1	*	9.5	14.1	*
Open Reduction of Hip Fracture	7	0.0	5.8	*	0.0	10.6	*	0.0	13.8	*
Prostatectomy	44	0.0	0.6	*	0.0	1.5	*	0.0	2.6	*
Cholecystectomy	27	7.4	4.5	*	7.4	6.7	*	11.1	7.9	*
Hysterectomy	5	0.0	0.2	*	0.0	0.3	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	67
Occupancy Rate	53
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	25
Percent of Physicians Board Certified Specialists	60
Medical Residents/Interns	0
Registered Nurses	70
Licensed Practical Nurses	25

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

TAWAS ST JOSEPH HOSPITAL

Medicare Provider Number: 230100

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	839	9.4	8.8	1.6	14.3	12.9	1.7	17.5	16.4	2.1
CONDITIONS:										
Acute Myocardial Infarction	42	42.9	28.6	*	47.6	32.2	*	50.0	35.7	*
Congestive Heart Failure	58	20.7	15.0	6.8	32.8	23.1	9.5	41.4	29.8	11.9
Pneumonia/Influenza	65	18.5	17.1	4.9	21.5	23.1	5.4	27.7	27.9	5.7
Chronic Obstructive Pulmonary Disease	8	12.5	6.3	*	25.0	10.9	*	25.0	15.4	*
Transient Cerebral Ischemia	6	0.0	2.7	*	0.0	5.8	*	0.0	9.1	*
Stroke	16	12.5	19.2	*	25.0	25.5	*	25.0	30.0	*
Hip Fracture	15	0.0	7.5	*	0.0	13.2	*	13.3	16.7	*
Sepsis	2	0.0	29.5	*	0.0	35.6	*	50.0	41.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	66.7	13.7	*	66.7	17.1	*	66.7	20.4	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	10	0.0	3.5	*	0.0	6.7	*	0.0	8.9	*
Open Reduction of Hip Fracture	9	0.0	7.5	*	0.0	13.5	*	22.2	17.2	*
Prostatectomy	40	0.0	0.6	*	0.0	1.5	*	0.0	2.6	*
Cholecystectomy	29	3.4	1.3	*	3.4	2.5	*	3.4	3.6	*
Hysterectomy	5	0.0	0.2	*	0.0	0.4	*	0.0	0.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	848	9.9	8.6	1.1	14.5	12.6	1.5	18.6	16.0	2.0
CONDITIONS:										
Acute Myocardial Infarction	46	34.8	28.5	*	37.0	32.0	*	39.1	35.5	*
Congestive Heart Failure	47	25.5	15.8	*	34.0	23.5	*	44.7	30.2	*
Pneumonia/Influenza	50	16.0	16.8	*	26.0	22.8	*	30.0	27.8	*
Chronic Obstructive Pulmonary Disease	29	6.9	9.8	*	13.8	16.2	*	20.7	21.7	*
Transient Cerebral Ischemia	12	0.0	2.1	*	8.3	4.7	*	8.3	7.6	*
Stroke	11	9.1	15.4	*	9.1	21.3	*	9.1	25.6	*
Hip Fracture	26	7.7	5.8	*	11.5	10.4	*	23.1	13.6	*
Sepsis	4	25.0	32.1	*	25.0	40.1	*	25.0	47.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	12	8.3	6.5	*	8.3	10.4	*	16.7	12.8	*
Open Reduction of Hip Fracture	15	6.7	5.0	*	13.3	9.7	*	26.7	13.1	*
Prostatectomy	32	0.0	0.5	*	0.0	1.3	*	0.0	2.2	*
Cholecystectomy	31	9.7	4.1	*	12.9	6.7	*	16.1	8.1	*
Hysterectomy	4	0.0	0.3	*	0.0	0.6	*	0.0	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

THORN HOSPITAL

458 Cross St
Hudson, MI 49247

Medicare Provider Number: 230158

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	7	28.6	19.1	*	42.9	27.7	*	42.9	33.1	*
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	1	0.0	17.1	*	0.0	22.7	*	0.0	27.4	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1988

Total Beds	22
Ownership/Control	Local Government

STAFFING:

Medical Residents/Interns	0
Registered Nurses	8
Licensed Practical Nurses	2

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	No
Hospice	No
Intensive Care Unit	No
Organ Transplant	No
Rehabilitation	No
Shock Trauma	No

**** Not used in calculating hospital mortality rates.**

THORN HOSPITAL

Medicare Provider Number: 230158

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	66	12.1	10.6	4.3	15.2	15.9	4.7	25.8	20.2	5.6
CONDITIONS:										
Acute Myocardial Infarction	3	33.3	22.3	*	33.3	24.9	*	33.3	27.8	*
Congestive Heart Failure	0									
Pneumonia/Influenza	7	14.3	21.1	*	28.6	28.9	*	42.9	34.9	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	4	25.0	2.0	*	25.0	4.5	*	50.0	7.2	*
Stroke	3	0.0	27.6	*	0.0	32.9	*	0.0	37.3	*
Hip Fracture	0									
Sepsis	0									
PROCEDURE:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	101	5.9	7.6	2.9	11.9	11.9	3.6	14.9	15.4	3.6
CONDITIONS:										
Acute Myocardial Infarction	1	0.0	23.2	*	100.0	26.0	*	100.0	29.3	*
Congestive Heart Failure	3	66.7	13.7	*	66.7	20.1	*	66.7	26.0	*
Pneumonia/Influenza	8	12.5	14.2	*	12.5	19.5	*	12.5	24.0	*
Chronic Obstructive Pulmonary Disease	2	0.0	8.4	*	0.0	16.4	*	0.0	23.2	*
Transient Cerebral Ischemia	3	0.0	3.3	*	0.0	8.0	*	0.0	13.2	*
Stroke	4	0.0	42.0	*	50.0	52.0	*	50.0	57.7	*
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	2	0.0	0.8	*	0.0	1.4	*	0.0	2.0	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

THREE RIVERS HOSPITAL

1111 West Broadway
Three Rivers, MI 49093

Medicare Provider Number: 230015

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	519	11.9	10.5	2.5	16.6	15.0	2.6	19.5	18.6	2.2
CONDITIONS:										
Acute Myocardial Infarction	19	47.4	30.1	*	47.4	32.8	*	47.4	36.1	*
Congestive Heart Failure	27	25.9	17.2	*	33.3	26.2	*	44.4	33.4	*
Pneumonia/Influenza	43	20.9	16.0	*	23.3	21.4	*	23.3	25.7	*
Chronic Obstructive Pulmonary Disease	5	0.0	10.4	*	0.0	16.8	*	0.0	22.1	*
Transient Cerebral Ischemia	3	0.0	3.4	*	0.0	7.9	*	0.0	12.2	*
Stroke	24	25.0	21.9	*	37.5	28.6	*	41.7	32.9	*
Hip Fracture	18	11.1	7.1	*	11.1	12.1	*	16.7	15.5	*
Sepsis	13	23.1	34.6	*	30.8	40.0	*	30.8	45.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	11	9.1	6.3	*	9.1	10.8	*	18.2	13.8	*
Open Reduction of Hip Fracture	7	14.3	5.3	*	14.3	9.5	*	14.3	12.4	*
Prostatectomy	18	0.0	1.1	*	5.6	2.6	*	5.6	4.4	*
Cholecystectomy	11	0.0	2.0	*	0.0	3.2	*	0.0	4.0	*
Hysterectomy	8	0.0	0.7	*	0.0	1.3	*	0.0	2.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	60
Occupancy Rate	42
Ownership/Control	District/Authority

STAFFING: (As of September 30, 1989)

Total Number of Physicians	18
Percent of Physicians Board Certified Specialists	61
Medical Residents/Interns	0
Registered Nurses	49
Licensed Practical Nurses	17

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

THREE RIVERS HOSPITAL

Medicare Provider Number: 230015

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	555	11.7	10.3	1.8	16.6	15.0	2.0	20.5	18.7	2.8
CONDITIONS:										
Acute Myocardial Infarction	18	22.2	29.4	*	38.9	32.5	*	38.9	35.8	*
Congestive Heart Failure	41	24.4	16.2	*	34.1	23.9	*	48.8	30.6	*
Pneumonia/Influenza	51	17.6	18.6	5.6	21.6	24.7	7.0	25.5	29.3	7.5
Chronic Obstructive Pulmonary Disease	7	0.0	10.7	*	28.6	16.0	*	28.6	20.6	*
Transient Cerebral Ischemia	4	0.0	1.9	*	0.0	3.9	*	0.0	6.0	*
Stroke	16	25.0	20.6	*	31.3	27.6	*	37.5	32.2	*
Hip Fracture	16	6.3	8.4	*	25.0	14.9	*	25.0	18.9	*
Sepsis	7	28.6	21.7	*	28.6	27.0	*	28.6	31.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	11.6	*	0.0	21.6	*	0.0	28.9	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	6	16.7	5.9	*	16.7	10.9	*	16.7	14.1	*
Open Reduction of Hip Fracture	8	0.0	8.8	*	25.0	16.3	*	25.0	21.0	*
Prostatectomy	22	0.0	1.0	*	0.0	2.3	*	0.0	3.7	*
Cholecystectomy	18	5.6	4.6	*	5.6	7.5	*	11.1	9.4	*
Hysterectomy	2	0.0	1.9	*	0.0	3.2	*	0.0	4.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	469	10.7	10.3	1.9	14.7	15.0	1.8	19.2	18.8	2.0
CONDITIONS:										
Acute Myocardial Infarction	12	8.3	27.1	*	16.7	30.7	*	25.0	34.3	*
Congestive Heart Failure	24	25.0	15.9	*	33.3	23.7	*	37.5	30.2	*
Pneumonia/Influenza	37	16.2	17.2	*	27.0	22.3	*	29.7	26.5	*
Chronic Obstructive Pulmonary Disease	10	10.0	11.6	*	10.0	19.3	*	20.0	24.9	*
Transient Cerebral Ischemia	4	0.0	2.0	*	0.0	4.3	*	0.0	6.7	*
Stroke	23	39.1	24.8	*	43.5	32.0	*	52.2	36.6	*
Hip Fracture	12	8.3	7.9	*	8.3	14.3	*	16.7	18.3	*
Sepsis	10	20.0	31.4	*	40.0	39.0	*	50.0	45.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	4.4	*	0.0	8.8	*	0.0	12.0	*
Open Reduction of Hip Fracture	5	0.0	6.5	*	0.0	12.4	*	0.0	16.1	*
Prostatectomy	17	5.9	1.5	*	5.9	3.3	*	11.8	5.3	*
Cholecystectomy	20	0.0	2.3	*	0.0	4.4	*	5.0	6.2	*
Hysterectomy	3	0.0	0.9	*	0.0	2.1	*	0.0	3.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

TOLFREE MEMORIAL HOSPITAL

335 E Houghton Avenue
West Branch, MI 48661

Medicare Provider Number: 230095

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,111	11.3	9.6	1.5	15.6	13.9	1.8	18.5	17.3	1.8
CONDITIONS:										
Acute Myocardial Infarction	76	26.3	28.1	5.4	35.5	32.4	5.9	39.5	36.3	6.6
Congestive Heart Failure	43	14.0	15.9	*	20.9	24.1	*	23.3	30.7	*
Pneumonia/Influenza	58	20.7	15.5	6.2	22.4	20.9	5.5	24.1	25.1	6.0
Chronic Obstructive Pulmonary Disease	27	0.0	6.2	*	7.4	10.5	*	11.1	14.4	*
Transient Cerebral Ischemia	41	0.0	1.9	*	0.0	4.2	*	4.9	6.7	*
Stroke	51	19.6	21.3	6.8	35.3	27.4	7.9	37.3	31.8	8.3
Hip Fracture	28	14.3	6.8	*	25.0	11.9	*	25.0	15.2	*
Sepsis	7	42.9	29.3	*	71.4	35.5	*	71.4	40.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	17	5.9	3.0	*	5.9	5.3	*	5.9	6.9	*
Open Reduction of Hip Fracture	16	18.8	6.6	*	37.5	12.2	*	37.5	15.8	*
Prostatectomy	22	0.0	0.5	*	0.0	1.2	*	4.5	2.0	*
Cholecystectomy	17	0.0	1.6	*	0.0	2.4	*	0.0	2.9	*
Hysterectomy	6	0.0	0.7	*	0.0	1.5	*	0.0	2.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	92
Occupancy Rate	64
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	30
Percent of Physicians Board Certified Specialists	20
Medical Residents/Interns	0
Registered Nurses	75
Licensed Practical Nurses	35

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

TOLFREE MEMORIAL HOSPITAL
Medicare Provider Number: 230095

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,067	8.5	9.5	1.4	14.1	13.9	1.6	17.4	17.4	1.2
CONDITIONS:										
Acute Myocardial Infarction	54	27.8	28.9	7.4	33.3	32.3	7.9	37.0	35.9	7.7
Congestive Heart Failure	43	23.3	16.4	*	34.9	25.2	*	39.5	32.1	*
Pneumonia/Influenza	56	12.5	16.7	6.8	19.6	22.4	7.6	23.2	26.9	8.0
Chronic Obstructive Pulmonary Disease	25	12.0	6.3	*	20.0	11.7	*	20.0	16.3	*
Transient Cerebral Ischemia	40	5.0	2.2	*	15.0	4.8	*	22.5	7.7	*
Stroke	41	22.0	22.4	*	26.8	28.8	*	36.6	33.5	*
Hip Fracture	30	6.7	6.5	*	13.3	11.6	*	13.3	14.9	*
Sepsis	7	0.0	31.7	*	42.9	39.3	*	57.1	44.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	100.0	35.0	*	100.0	38.6	*	100.0	42.1	*
Carotid Endarterectomy	1	0.0	1.0	*	0.0	2.1	*	0.0	3.2	*
Hip Replacement/Reconstruction	10	0.0	5.0	*	0.0	9.4	*	0.0	12.2	*
Open Reduction of Hip Fracture	16	6.3	6.3	*	18.8	11.9	*	18.8	15.5	*
Prostatectomy	20	0.0	0.5	*	0.0	1.0	*	0.0	1.7	*
Cholecystectomy	25	0.0	2.0	*	0.0	3.6	*	4.0	4.8	*
Hysterectomy	7	14.3	0.5	*	14.3	0.9	*	14.3	1.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	957	10.8	10.7	1.5	14.9	15.4	1.5	18.5	19.1	1.5
CONDITIONS:										
Acute Myocardial Infarction	79	22.8	29.9	9.1	26.6	34.4	9.8	30.4	38.5	9.8
Congestive Heart Failure	58	17.2	17.5	6.3	27.6	25.7	6.1	36.2	32.4	7.8
Pneumonia/Influenza	62	17.7	14.9	6.4	24.2	20.2	7.7	25.8	24.5	5.7
Chronic Obstructive Pulmonary Disease	22	13.6	9.3	*	13.6	16.3	*	22.7	21.8	*
Transient Cerebral Ischemia	23	4.3	2.9	*	4.3	6.3	*	8.7	9.8	*
Stroke	30	23.3	22.6	*	26.7	29.1	*	30.0	33.9	*
Hip Fracture	4	0.0	7.8	*	0.0	13.3	*	25.0	16.8	*
Sepsis	3	0.0	41.6	*	33.3	51.6	*	33.3	58.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	4	0.0	1.4	*	0.0	2.6	*	0.0	3.8	*
Hip Replacement/Reconstruction	1	0.0	3.1	*	0.0	6.5	*	0.0	9.2	*
Open Reduction of Hip Fracture	1	0.0	13.3	*	0.0	21.1	*	0.0	25.3	*
Prostatectomy	20	0.0	0.9	*	0.0	2.2	*	5.0	3.8	*
Cholecystectomy	31	16.1	2.4	*	16.1	4.2	*	16.1	5.2	*
Hysterectomy	3	33.3	2.2	*	33.3	4.8	*	33.3	7.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

TRAVERSE CITY OSTEOPATHIC HOSPITAL

550 Munson Avenue
Traverse City, MI 49684

Medicare Provider Number: 230228

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	693	10.0	9.4	1.4	15.3	14.2	1.5	18.0	17.9	1.6
CONDITIONS:										
Acute Myocardial Infarction	24	29.2	27.0	*	33.3	29.8	*	37.5	33.1	*
Congestive Heart Failure	42	7.1	14.0	*	11.9	21.7	*	16.7	28.1	*
Pneumonia/Influenza	32	18.8	12.9	*	31.3	18.0	*	34.4	22.0	*
Chronic Obstructive Pulmonary Disease	5	0.0	9.6	*	0.0	15.4	*	20.0	20.7	*
Transient Cerebral Ischemia	12	0.0	2.5	*	16.7	5.7	*	16.7	9.3	*
Stroke	30	26.7	18.5	*	36.7	26.1	*	43.3	30.6	*
Hip Fracture	19	5.3	5.3	*	5.3	9.9	*	10.5	13.0	*
Sepsis	9	44.4	27.5	*	44.4	34.9	*	55.6	42.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	3.0	*	0.0	6.1	*	0.0	9.0	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	13	7.7	2.2	*	7.7	4.2	*	15.4	5.8	*
Open Reduction of Hip Fracture	11	0.0	4.1	*	0.0	8.1	*	0.0	10.9	*
Prostatectomy	13	0.0	1.4	*	0.0	3.3	*	0.0	5.3	*
Cholecystectomy	4	0.0	1.0	*	0.0	1.8	*	0.0	2.4	*
Hysterectomy	11	0.0	0.3	*	0.0	0.6	*	0.0	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	81
Occupancy Rate	53
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	57
Percent of Physicians Board Certified Specialists	49
Medical Residents/Interns	5
Registered Nurses	68
Licensed Practical Nurses	22

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

TRAVERSE CITY OSTEOPATHIC HOSPITAL

Medicare Provider Number: 230228

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	695	9.2	9.4	1.3	14.2	14.4	1.4	17.3	18.3	1.6
CONDITIONS:										
Acute Myocardial Infarction	24	25.0	21.8	*	33.3	24.7	*	45.8	27.9	*
Congestive Heart Failure	44	15.9	16.8	*	22.7	25.3	*	25.0	32.0	*
Pneumonia/Influenza	39	20.5	16.3	*	30.8	22.5	*	30.8	27.1	*
Chronic Obstructive Pulmonary Disease	8	25.0	9.1	*	25.0	16.3	*	25.0	22.4	*
Transient Cerebral Ischemia	4	0.0	4.0	*	0.0	9.9	*	0.0	16.0	*
Stroke	15	6.7	16.5	*	20.0	24.1	*	26.7	28.7	*
Hip Fracture	14	7.1	7.9	*	14.3	14.0	*	14.3	17.6	*
Sepsis	7	42.9	43.7	*	57.1	57.4	*	85.7	65.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	6	0.0	4.0	*	16.7	6.7	*	33.3	9.4	*
Carotid Endarterectomy	1	0.0	1.1	*	0.0	2.0	*	0.0	2.9	*
Hip Replacement/Reconstruction	18	0.0	2.0	*	0.0	3.7	*	0.0	4.9	*
Open Reduction of Hip Fracture	9	11.1	7.1	*	22.2	13.3	*	22.2	17.2	*
Prostatectomy	19	0.0	1.5	*	5.3	3.8	*	5.3	6.0	*
Cholecystectomy	10	0.0	0.8	*	0.0	1.6	*	0.0	2.3	*
Hysterectomy	4	0.0	0.7	*	0.0	1.0	*	0.0	1.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	711	8.6	9.6	1.4	12.5	14.1	1.6	14.5	17.7	2.0
CONDITIONS:										
Acute Myocardial Infarction	29	34.5	28.7	*	37.9	32.5	*	37.9	36.1	*
Congestive Heart Failure	34	20.6	19.0	*	23.5	27.7	*	29.4	34.6	*
Pneumonia/Influenza	31	9.7	16.5	*	22.6	22.2	*	25.8	27.0	*
Chronic Obstructive Pulmonary Disease	9	0.0	10.9	*	11.1	16.9	*	11.1	21.6	*
Transient Cerebral Ischemia	3	0.0	2.2	*	0.0	4.9	*	0.0	7.9	*
Stroke	27	14.8	19.6	*	18.5	28.4	*	25.9	33.4	*
Hip Fracture	13	7.7	8.6	*	23.1	15.7	*	23.1	20.2	*
Sepsis	9	22.2	23.5	*	33.3	30.2	*	33.3	36.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	2.2	*	0.0	5.5	*	25.0	9.4	*
Carotid Endarterectomy	1	0.0	2.0	*	0.0	5.0	*	0.0	7.7	*
Hip Replacement/Reconstruction	10	0.0	3.4	*	0.0	6.9	*	0.0	9.7	*
Open Reduction of Hip Fracture	8	12.5	8.4	*	25.0	15.9	*	25.0	20.7	*
Prostatectomy	28	0.0	0.8	*	0.0	1.9	*	0.0	3.2	*
Cholecystectomy	10	0.0	2.6	*	0.0	5.6	*	0.0	8.0	*
Hysterectomy	6	0.0	2.4	*	0.0	4.7	*	0.0	6.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

TRI COUNTY COMMUNITY HOSPITAL

1131 E Howard City
Edmore, MI 48829

Medicare Provider Number: 230179

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	45	2.2	7.7	*	8.9	12.1	*	17.8	16.0	*
CONDITIONS:										
Acute Myocardial Infarction	2	0.0	28.1	*	0.0	30.8	*	0.0	34.6	*
Congestive Heart Failure	5	0.0	10.3	*	0.0	16.4	*	0.0	21.8	*
Pneumonia/Influenza	5	0.0	10.6	*	0.0	14.2	*	0.0	17.6	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	1	0.0	33.1	*	100.0	46.8	*	100.0	55.2	*
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	58
Occupancy Rate	45
Ownership/Control	Church

STAFFING: (As of September 30, 1989)

Total Number of Physicians	3
Percent of Physicians Board Certified Specialists	100
Medical Residents/Interns	0
Registered Nurses	5
Licensed Practical Nurses	6

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

TRI COUNTY COMMUNITY HOSPITAL

Medicare Provider Number: 230179

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	50	6.0	9.4	*	10.0	13.0	*	12.0	15.9	*
CONDITIONS:										
Acute Myocardial Infarction	2	0.0	27.7	*	0.0	32.6	*	0.0	37.1	*
Congestive Heart Failure	0									
Pneumonia/Influenza	7	14.3	16.3	*	14.3	23.4	*	14.3	28.6	*
Chronic Obstructive Pulmonary Disease	1	0.0	4.1	*	0.0	10.1	*	0.0	16.0	*
Transient Cerebral Ischemia	1	0.0	0.9	*	0.0	1.8	*	0.0	2.8	*
Stroke	1	100.0	25.5	*	100.0	31.9	*	100.0	37.1	*
Hip Fracture	0									
Sepsis	5	0.0	22.4	*	0.0	27.1	*	20.0	31.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	61	4.9	5.7	3.0	8.2	8.9	4.2	8.2	11.9	6.0
CONDITIONS:										
Acute Myocardial Infarction	1	0.0	13.5	*	0.0	15.0	*	0.0	17.0	*
Congestive Heart Failure	4	0.0	15.8	*	0.0	23.5	*	0.0	30.0	*
Pneumonia/Influenza	3	0.0	10.0	*	0.0	13.8	*	0.0	17.3	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	3	0.0	2.2	*	0.0	5.3	*	0.0	8.7	*
Stroke	2	50.0	33.2	*	50.0	41.6	*	50.0	47.7	*
Hip Fracture	0									
Sepsis	1	100.0	25.8	*	100.0	31.5	*	100.0	37.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	2	0.0	1.4	*	0.0	2.2	*	0.0	2.8	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

UNITED MEMORIAL HOSPITAL

615 S Bower Street
Greenville, MI 48838

Medicare Provider Number: 230035

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	PRED	SD	90 DAYS OBS	PRED	SD	180 DAYS OBS	PRED	SD
ALL CAUSES	245	11.4	9.9	2.1	16.7	14.6	2.6	21.2	18.3	3.7
CONDITIONS:										
Acute Myocardial Infarction	6	0.0	27.3	*	0.0	30.8	*	0.0	34.3	*
Congestive Heart Failure	16	25.0	15.4	*	56.3	24.3	*	56.3	31.7	*
Pneumonia/Influenza	22	13.6	17.2	*	18.2	23.3	*	31.8	28.3	*
Chronic Obstructive Pulmonary Disease	5	0.0	4.5	*	0.0	7.8	*	0.0	11.1	*
Transient Cerebral Ischemia	4	0.0	1.8	*	0.0	3.9	*	0.0	6.3	*
Stroke	8	25.0	23.7	*	37.5	31.2	*	37.5	36.0	*
Hip Fracture	7	14.3	4.6	*	14.3	8.3	*	14.3	11.0	*
Sepsis	7	42.9	35.4	*	42.9	42.8	*	57.1	49.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	100.0	3.0	*	100.0	6.5	*	100.0	9.6	*
Open Reduction of Hip Fracture	6	16.7	4.2	*	16.7	7.9	*	16.7	10.5	*
Prostatectomy	0									
Cholecystectomy	3	0.0	1.1	*	0.0	1.8	*	0.0	2.3	*
Hysterectomy	1	0.0	0.4	*	0.0	0.7	*	0.0	1.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	85
Occupancy Rate	57
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	13
Percent of Physicians Board Certified Specialists	46
Medical Residents/Interns	0
Registered Nurses	30
Licensed Practical Nurses	19

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

UNITED MEMORIAL HOSPITAL

Medicare Provider Number: 230035

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	291	14.1	9.9	2.5	19.9	14.4	3.2	23.4	18.0	3.1
CONDITIONS:										
Acute Myocardial Infarction	7	28.6	35.5	*	28.6	41.3	*	28.6	46.0	*
Congestive Heart Failure	27	25.9	15.9	*	37.0	24.3	*	40.7	31.3	*
Pneumonia/Influenza	21	28.6	22.1	*	33.3	29.4	*	33.3	34.5	*
Chronic Obstructive Pulmonary Disease	9	0.0	4.5	*	0.0	8.1	*	11.1	11.5	*
Transient Cerebral Ischemia	2	0.0	1.4	*	0.0	2.7	*	0.0	4.1	*
Stroke	6	66.7	27.6	*	83.3	35.8	*	83.3	40.9	*
Hip Fracture	10	20.0	7.5	*	30.0	13.3	*	40.0	16.9	*
Sepsis	3	33.3	26.8	*	33.3	34.1	*	33.3	41.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	4.1	*	0.0	7.4	*	0.0	9.5	*
Open Reduction of Hip Fracture	5	0.0	6.6	*	20.0	12.2	*	20.0	15.7	*
Prostatectomy	0									
Cholecystectomy	11	0.0	1.9	*	0.0	3.7	*	0.0	5.3	*
Hysterectomy	3	0.0	0.6	*	0.0	1.1	*	0.0	1.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	311	12.9	10.1	2.8	19.0	15.5	3.4	22.2	19.5	3.5
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	21	28.6	18.0	*	42.9	26.8	*	42.9	33.9	*
Pneumonia/Influenza	23	17.4	20.6	*	21.7	28.0	*	21.7	33.6	*
Chronic Obstructive Pulmonary Disease	1	0.0	6.4	*	0.0	13.8	*	100.0	21.3	*
Transient Cerebral Ischemia	4	0.0	4.1	*	0.0	9.9	*	0.0	15.8	*
Stroke	16	31.3	25.8	*	43.8	35.3	*	62.5	40.8	*
Hip Fracture	14	7.1	6.1	*	7.1	11.5	*	14.3	15.3	*
Sepsis	6	50.0	33.2	*	50.0	42.5	*	50.0	49.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	0.0	4.4	*	0.0	8.8	*	0.0	12.0	*
Open Reduction of Hip Fracture	4	0.0	5.1	*	0.0	10.0	*	0.0	13.5	*
Prostatectomy	0									
Cholecystectomy	11	0.0	1.9	*	0.0	3.5	*	9.1	4.9	*
Hysterectomy	3	0.0	0.4	*	0.0	0.6	*	0.0	0.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

UNIVERSITY HOSPITAL

1500 E Medical Center Drive
Ann Arbor, MI 48104

Medicare Provider Number: 230046

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,783	6.8	7.6	0.6	11.2	12.3	0.7	14.6	16.0	0.8
CONDITIONS:										
Acute Myocardial Infarction	69	21.7	26.8	7.5	24.6	30.3	7.4	27.5	33.8	8.2
Congestive Heart Failure	73	9.6	14.8	7.4	16.4	23.2	9.7	24.7	30.0	8.2
Pneumonia/Influenza	47	17.0	14.2	*	21.3	20.5	*	23.4	24.8	*
Chronic Obstructive Pulmonary Disease	29	6.9	9.9	*	20.7	17.0	*	27.6	22.9	*
Transient Cerebral Ischemia	16	0.0	1.3	*	0.0	2.4	*	6.3	3.7	*
Stroke	45	22.2	20.1	*	28.9	26.7	*	31.1	31.1	*
Hip Fracture	18	0.0	7.1	*	16.7	12.5	*	16.7	16.1	*
Sepsis	33	36.4	26.9	*	42.4	38.5	*	45.5	46.2	*
PROCEDURES:										
Angioplasty	119	5.9	4.0	3.7	7.6	5.3	3.7	8.4	6.7	3.6
Coronary Artery Bypass Graft	108	6.5	5.2	2.9	10.2	7.6	3.9	11.1	9.2	4.2
Initial Pacemaker Insertion	28	10.7	2.5	*	14.3	4.6	*	17.9	6.6	*
Carotid Endarterectomy	16	0.0	1.3	*	0.0	2.3	*	0.0	3.4	*
Hip Replacement/Reconstruction	54	0.0	2.4	3.4	9.3	4.8	4.2	11.1	6.9	4.2
Open Reduction of Hip Fracture	9	0.0	6.7	*	22.2	12.2	*	22.2	15.6	*
Prostatectomy	49	0.0	0.7	*	0.0	1.8	*	0.0	3.1	*
Cholecystectomy	26	3.8	5.1	*	7.7	9.3	*	11.5	12.5	*
Hysterectomy	42	0.0	0.9	*	0.0	2.2	*	0.0	3.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	858
Occupancy Rate	87
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	691
Percent of Physicians Board Certified Specialists	(Not Available)
Medical Residents/Interns	428
Registered Nurses	1,238
Licensed Practical Nurses	86

SPECIALTY SERVICES:

Burn Unit	Yes
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	Yes
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	Yes

**** Not used in calculating hospital mortality rates.**

UNIVERSITY HOSPITAL

Medicare Provider Number: 230046

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,813	5.7	7.4	0.6	10.1	12.0	0.7	13.7	15.5	0.7
CONDITIONS:										
Acute Myocardial Infarction	64	17.2	24.2	6.3	20.3	28.1	7.2	20.3	31.8	8.3
Congestive Heart Failure	60	13.3	17.8	8.4	23.3	27.7	8.5	35.0	35.6	6.3
Pneumonia/Influenza	34	8.8	14.1	*	14.7	19.5	*	23.5	23.6	*
Chronic Obstructive Pulmonary Disease	33	9.1	11.7	*	15.2	19.3	*	21.2	25.2	*
Transient Cerebral Ischemia	26	3.8	2.4	*	7.7	5.1	*	11.5	7.7	*
Stroke	43	11.6	21.4	*	14.0	27.9	*	14.0	32.3	*
Hip Fracture	27	3.7	6.5	*	7.4	11.6	*	11.1	14.8	*
Sepsis	27	33.3	26.2	*	37.0	33.0	*	37.0	38.3	*
PROCEDURES:										
Angioplasty	79	3.8	3.1	2.1	5.1	4.2	2.6	5.1	5.4	2.7
Coronary Artery Bypass Graft	102	7.8	5.9	2.6	11.8	8.4	3.5	15.7	9.9	4.9
Initial Pacemaker Insertion	24	4.2	3.1	*	4.2	5.7	*	8.3	8.0	*
Carotid Endarterectomy	15	0.0	1.3	*	0.0	2.5	*	0.0	3.6	*
Hip Replacement/Reconstruction	50	0.0	2.3	*	2.0	4.4	*	2.0	6.3	*
Open Reduction of Hip Fracture	13	7.7	5.9	*	7.7	10.8	*	15.4	14.0	*
Prostatectomy	61	0.0	0.6	1.1	0.0	1.5	2.1	1.6	2.6	2.2
Cholecystectomy	31	6.5	5.2	*	22.6	10.0	*	29.0	13.7	*
Hysterectomy	44	2.3	0.8	*	2.3	1.8	*	6.8	2.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,451	6.3	7.6	0.6	11.0	12.3	0.7	14.5	15.8	0.9
CONDITIONS:										
Acute Myocardial Infarction	86	17.4	27.4	8.2	24.4	30.7	8.0	25.6	34.0	7.5
Congestive Heart Failure	56	25.0	18.9	8.8	33.9	28.8	10.1	46.4	36.4	13.2
Pneumonia/Influenza	36	13.9	17.0	*	22.2	22.5	*	25.0	26.8	*
Chronic Obstructive Pulmonary Disease	38	10.5	12.4	*	21.1	20.2	*	28.9	26.2	*
Transient Cerebral Ischemia	17	0.0	2.3	*	5.9	4.5	*	5.9	6.9	*
Stroke	42	23.8	21.1	*	26.2	28.2	*	26.2	32.7	*
Hip Fracture	21	9.5	5.8	*	9.5	10.5	*	19.0	13.7	*
Sepsis	18	22.2	26.1	*	50.0	37.7	*	61.1	44.7	*
PROCEDURES:										
Angioplasty	97	5.2	5.3	2.3	10.3	6.5	3.0	13.4	7.9	3.6
Coronary Artery Bypass Graft	70	7.1	7.9	3.4	8.6	11.1	4.6	11.4	12.8	4.7
Initial Pacemaker Insertion	21	9.5	4.3	*	19.0	8.8	*	33.3	12.9	*
Carotid Endarterectomy	9	0.0	1.5	*	0.0	2.8	*	0.0	3.9	*
Hip Replacement/Reconstruction	66	3.0	1.6	2.0	3.0	2.9	2.4	4.5	3.8	2.8
Open Reduction of Hip Fracture	13	0.0	5.1	*	0.0	10.0	*	7.7	13.3	*
Prostatectomy	48	0.0	0.7	*	2.1	1.6	*	4.2	2.9	*
Cholecystectomy	30	0.0	9.6	*	6.7	14.9	*	13.3	18.4	*
Hysterectomy	47	0.0	0.7	*	0.0	1.4	*	0.0	2.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

587.1

UNIVERSITY OF MICHIGAN MEDICAL CENTER

The University of Michigan Hospitals
Ann Arbor, Michigan 48109-0472

John D. Forsyth
Executive Director
(313) 764-1505

January 11, 1991

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Medicare Provider Number:
230046

Dear Mrs. Kappert:

The Health Care Financing Administration (HCFA) is to be commended for its efforts to further refine its mortality reporting methodology to enable its use as an indicator of quality among Medicare hospital providers.

An analysis of the data for Medicare patients at the University of Michigan Hospitals revealed that in the statistically significant categories (50 cases or more), the observed rates were less than the predicted rates or the observed rates fell within the range of expected mortality at both the 95% and 75% prediction intervals. Obviously, we are very pleased with our mortality statistics. However, we feel that there are other factors that are not considered by the HCFA methodology:

> For a number of our Medicare patients, a secondary diagnosis, not the principal diagnosis, is more reflective of the cause of death or condition leading to death. We recommend that, rather than grouping by principal diagnosis, HCFA utilize a hierarchical process that considers at least the first five diagnoses for a patient and assigns the patient to a diagnostic category based on the condition with the highest level of severity.
>
> Many Medicare patients had multiple comorbid conditions as secondary diagnoses, which is an indicator of the relative severity of their illness. Clearly these patients had a higher severity of illness and their probability of dying was greater than others falling into the same diagnostic or procedures group. We recommend that HCFA continue to pursue the identification of a reasonable system for describing severity of illness and that such a system, when available, be utilized in further refining HCFA's mortality reporting methodology.

We also recommend that HCFA provide with the publication of the mortality data a statistical significance explanation of the observed versus predicted mortality rates. This will aid in avoiding false conclusions by the casual observer of point-to-point data.

The University of Michigan Hospitals recognizes that the HCFA mortality data could be improved through the implementation of our recommendations. Thus, we urge restraint in the interpretation of the mortality data and using it to compare hospitals with dissimilar mixes of patients.

Sincerely,

John Forsyth
Executive Director

Robert P. Kelch, MD
Chief of Clinical Affairs

hcfalett

VISITORS HOSPITAL

15198 Main St
Buchanan, MI 49107

Medicare Provider Number: 230161

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	3	33.3	11.1	*	100.0	19.3	*	100.0	26.1	*
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	42
Occupancy Rate	76
Ownership/Control	Private, For Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	7
Percent of Physicians Board Certified Specialists	43
Medical Residents/Interns	0
Registered Nurses	27
Licensed Practical Nurses	20

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

VISITORS HOSPITAL

Medicare Provider Number: 230161

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	6	0.0	7.6	*	33.3	12.8	*	33.3	17.4	*
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	2	0.0	10.5	*	0.0	16.3	*	0.0	21.5	*
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	9	11.1	7.7	*	22.2	11.4	*	22.2	14.4	*
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	1	0.0	10.3	*	0.0	15.7	*	0.0	21.0	*
Pneumonia/Influenza	3	33.3	17.3	*	66.7	24.3	*	66.7	29.7	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

W A FOOTE MEMORIAL HOSPITAL

205 N East Ave
Jackson, MI 49201

Medicare Provider Number: 230092

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	3,164	9.6	8.9	0.6	14.6	13.8	0.8	18.8	17.6	1.0
CONDITIONS:										
Acute Myocardial Infarction	99	32.3	26.6	7.4	36.4	30.0	7.1	37.4	33.6	6.4
Congestive Heart Failure	169	14.2	14.8	3.5	23.1	22.9	3.8	28.4	29.7	3.8
Pneumonia/Influenza	120	19.2	15.5	4.5	21.7	21.3	4.6	28.3	25.9	5.7
Chronic Obstructive Pulmonary Disease	50	6.0	9.2	*	12.0	15.7	*	20.0	21.3	*
Transient Cerebral Ischemia	52	3.8	2.0	2.5	7.7	4.4	4.3	9.6	6.9	4.9
Stroke	116	16.4	18.4	4.0	22.4	24.1	4.8	25.9	28.3	5.0
Hip Fracture	84	10.7	7.0	5.7	16.7	12.5	5.5	20.2	16.1	5.6
Sepsis	54	20.4	25.9	6.9	24.1	33.5	8.6	25.9	39.6	9.4
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	25	0.0	2.0	*	4.0	4.1	*	8.0	6.2	*
Carotid Endarterectomy	11	0.0	1.7	*	0.0	3.4	*	9.1	5.3	*
Hip Replacement/Reconstruction	83	1.2	3.0	2.4	4.8	5.6	3.0	4.8	7.4	3.7
Open Reduction of Hip Fracture	40	12.5	6.5	*	17.5	12.2	*	25.0	16.0	*
Prostatectomy	109	0.9	1.4	1.2	1.8	2.5	1.9	5.5	3.8	2.3
Cholecystectomy	67	1.5	2.6	3.0	3.0	4.4	3.8	3.0	5.5	3.8
Hysterectomy	24	0.0	0.3	*	0.0	0.7	*	0.0	1.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	416
Occupancy Rate	57
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	144
Percent of Physicians Board Certified Specialists	64
Medical Residents/Interns	0
Registered Nurses	330
Licensed Practical Nurses	118

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

W A FOOTE MEMORIAL HOSPITAL

Medicare Provider Number: 230092

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,207	9.7	9.1	0.7	14.5	13.9	0.8	18.2	17.7	1.0
CONDITIONS:										
Acute Myocardial Infarction	113	30.1	27.1	4.7	32.7	31.2	5.7	40.7	35.0	5.4
Congestive Heart Failure	160	20.6	16.0	3.6	33.7	24.6	5.7	43.1	31.4	5.7
Pneumonia/Influenza	102	15.7	17.0	6.1	23.5	23.0	4.6	29.4	27.7	4.6
Chronic Obstructive Pulmonary Disease	53	7.5	10.1	5.4	18.9	17.1	6.0	28.3	22.7	10.0
Transient Cerebral Ischemia	67	1.5	1.9	1.7	4.5	4.3	2.6	9.0	6.8	3.9
Stroke	122	22.1	22.0	4.5	32.0	28.2	7.8	36.1	32.7	7.6
Hip Fracture	106	8.5	6.9	3.5	16.0	12.4	5.1	20.8	16.0	6.8
Sepsis	45	24.4	24.8	*	28.9	31.3	*	33.3	37.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	15	6.7	12.0	*	6.7	17.3	*	13.3	21.3	*
Carotid Endarterectomy	14	0.0	1.6	*	0.0	3.1	*	0.0	4.5	*
Hip Replacement/Reconstruction	97	4.1	3.3	2.4	10.3	6.3	4.2	11.3	8.5	5.1
Open Reduction of Hip Fracture	55	10.9	5.9	5.5	18.2	11.1	8.2	23.6	14.6	10.2
Prostatectomy	103	2.9	1.1	1.6	3.9	2.8	2.7	7.8	4.7	3.1
Cholecystectomy	72	2.8	2.9	2.0	5.6	5.2	2.9	5.6	6.9	3.6
Hysterectomy	18	5.6	0.8	*	5.6	1.4	*	5.6	2.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3,007	9.0	8.7	0.6	13.9	13.7	0.7	17.9	17.6	0.8
CONDITIONS:										
Acute Myocardial Infarction	86	33.7	28.1	9.8	36.0	32.0	9.0	39.5	35.9	7.6
Congestive Heart Failure	151	13.9	15.3	3.2	23.8	23.5	4.0	32.5	30.6	4.4
Pneumonia/Influenza	94	20.2	14.7	6.7	26.6	20.1	6.8	27.7	24.7	5.3
Chronic Obstructive Pulmonary Disease	57	5.3	13.1	6.9	14.0	22.3	8.7	21.1	29.2	9.9
Transient Cerebral Ischemia	69	1.4	2.0	1.9	1.4	4.3	3.5	5.8	6.9	3.6
Stroke	112	25.9	21.4	4.3	36.6	27.4	5.5	43.8	31.9	6.4
Hip Fracture	105	8.6	6.5	3.5	13.3	12.0	4.1	18.1	15.9	6.4
Sepsis	33	27.3	25.0	*	27.3	31.3	*	39.4	36.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	23	13.0	5.2	*	17.4	8.9	*	17.4	11.7	*
Carotid Endarterectomy	15	0.0	2.2	*	0.0	4.3	*	0.0	6.3	*
Hip Replacement/Reconstruction	98	2.0	2.7	2.1	3.1	5.5	3.1	7.1	7.5	3.9
Open Reduction of Hip Fracture	58	8.6	5.8	4.1	15.5	11.2	6.9	17.2	15.0	8.3
Prostatectomy	95	1.1	1.3	1.4	2.1	3.1	2.2	4.2	5.2	2.8
Cholecystectomy	55	5.5	2.8	3.2	5.5	5.0	4.0	9.1	6.6	5.0
Hysterectomy	23	0.0	0.8	*	0.0	1.5	*	0.0	2.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

WEST SHORE HOSPITAL

1465 E Parkdale Avenue
Manistee, MI 49660

Medicare Provider Number: 230060

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	672	10.9	10.7	1.2	15.0	16.0	1.6	18.5	20.1	2.0
CONDITIONS:										
Acute Myocardial Infarction	38	18.4	26.2	*	28.9	29.6	*	28.9	33.0	*
Congestive Heart Failure	48	14.6	15.6	*	18.8	24.0	*	25.0	31.0	*
Pneumonia/Influenza	52	13.5	17.5	7.9	17.3	23.9	10.1	21.2	28.5	10.2
Chronic Obstructive Pulmonary Disease	2	0.0	4.0	*	0.0	7.7	*	0.0	11.4	*
Transient Cerebral Ischemia	12	0.0	2.5	*	8.3	5.5	*	8.3	8.8	*
Stroke	26	23.1	20.5	*	34.6	27.6	*	34.6	32.2	*
Hip Fracture	19	15.8	8.7	*	15.8	15.0	*	15.8	18.8	*
Sepsis	6	66.7	19.7	*	66.7	26.5	*	66.7	32.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	8	0.0	5.0	*	12.5	8.9	*	12.5	12.1	*
Carotid Endarterectomy	3	33.3	1.8	*	66.7	3.7	*	66.7	5.6	*
Hip Replacement/Reconstruction	6	0.0	4.7	*	0.0	8.6	*	0.0	11.3	*
Open Reduction of Hip Fracture	8	0.0	8.7	*	0.0	15.5	*	0.0	19.4	*
Prostatectomy	0									
Cholecystectomy	11	0.0	2.8	*	0.0	4.9	*	0.0	6.4	*
Hysterectomy	4	0.0	0.5	*	0.0	1.1	*	0.0	1.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	54
Occupancy Rate	61
Ownership/Control	Local Government

STAFFING: (As of September 30, 1989)

Total Number of Physicians	25
Percent of Physicians Board Certified Specialists	68
Medical Residents/Interns	0
Registered Nurses	43
Licensed Practical Nurses	17

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

WEST SHORE HOSPITAL

Medicare Provider Number: 230060

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	603	10.1	10.4	2.0	14.1	15.2	2.8	17.2	19.2	3.3
CONDITIONS:										
Acute Myocardial Infarction	25	28.0	29.2	*	32.0	32.4	*	32.0	35.9	*
Congestive Heart Failure	36	22.2	16.6	*	25.0	25.0	*	27.8	32.1	*
Pneumonia/Influenza	46	10.9	15.9	*	19.6	21.4	*	21.7	25.6	*
Chronic Obstructive Pulmonary Disease	1	100.0	32.6	*	100.0	43.0	*	100.0	49.6	*
Transient Cerebral Ischemia	15	0.0	2.1	*	0.0	4.7	*	13.3	7.5	*
Stroke	32	21.9	19.3	*	31.3	26.6	*	34.4	31.1	*
Hip Fracture	13	0.0	6.2	*	0.0	10.9	*	0.0	13.9	*
Sepsis	7	28.6	25.3	*	28.6	30.9	*	28.6	36.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	3.0	*	0.0	6.0	*	0.0	8.9	*
Carotid Endarterectomy	7	0.0	1.5	*	0.0	2.9	*	0.0	4.3	*
Hip Replacement/Reconstruction	5	0.0	5.5	*	0.0	10.1	*	0.0	12.7	*
Open Reduction of Hip Fracture	7	0.0	5.2	*	0.0	9.5	*	0.0	12.3	*
Prostatectomy	0									
Cholecystectomy	12	0.0	4.6	*	0.0	8.2	*	8.3	10.6	*
Hysterectomy	6	0.0	2.1	*	16.7	4.2	*	33.3	5.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	621	10.8	9.6	1.5	15.0	13.7	1.7	17.6	17.2	1.6
CONDITIONS:										
Acute Myocardial Infarction	36	30.6	27.6	*	33.3	31.0	*	33.3	34.4	*
Congestive Heart Failure	43	18.6	14.4	*	30.2	21.6	*	37.2	27.8	*
Pneumonia/Influenza	30	13.3	13.8	*	16.7	18.3	*	20.0	22.3	*
Chronic Obstructive Pulmonary Disease	5	20.0	6.8	*	20.0	13.0	*	20.0	18.1	*
Transient Cerebral Ischemia	15	0.0	2.7	*	6.7	5.7	*	20.0	9.2	*
Stroke	23	30.4	23.3	*	43.5	30.5	*	47.8	35.1	*
Hip Fracture	21	4.8	6.5	*	14.3	11.4	*	19.0	14.7	*
Sepsis	5	40.0	47.9	*	60.0	56.4	*	60.0	64.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	4	0.0	2.6	*	0.0	5.8	*	25.0	8.7	*
Carotid Endarterectomy	7	14.3	1.7	*	14.3	3.5	*	14.3	5.3	*
Hip Replacement/Reconstruction	6	0.0	7.6	*	0.0	13.1	*	0.0	16.4	*
Open Reduction of Hip Fracture	11	0.0	4.8	*	0.0	9.2	*	0.0	12.4	*
Prostatectomy	32	0.0	0.7	*	3.1	1.8	*	6.3	3.2	*
Cholecystectomy	10	0.0	2.0	*	0.0	3.4	*	0.0	4.5	*
Hysterectomy	7	0.0	1.2	*	0.0	2.6	*	0.0	4.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

WESTBROOK HOSPITAL

183 West Street
Battle Creek, MI 49016

Medicare Provider Number: 230102

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	3	0.0	0.0	*	0.0	0.0	*	0.0	0.1	*
CONDITIONS:										
Acute Myocardial Infarction	0									
Congestive Heart Failure	0									
Pneumonia/Influenza	0									
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	0									
Stroke	0									
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: Health Care Financing Administration (OSCAR) - 1989

Total Beds	4
Ownership/Control	Private, Non-Profit
STAFFING:	
Medical Residents/Interns	0
Registered Nurses	56
Licensed Practical Nurses	9

SPECIALTY SERVICES:

Burn Unit	No
Coronary Care Unit	No
Hospice	No
Intensive Care Unit	No
Organ Transplant	No
Rehabilitation	No
Shock Trauma	No

**** Not used in calculating hospital mortality rates.**

WESTBROOK HOSPITAL

Medicare Provider Number: 230102

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	776	11.1	8.9	1.5	15.6	13.3	1.8	18.6	16.8	1.7
CONDITIONS:										
Acute Myocardial Infarction	20	25.0	27.4	*	25.0	31.1	*	25.0	34.7	*
Congestive Heart Failure	44	25.0	15.7	*	34.1	24.4	*	38.6	31.5	*
Pneumonia/Influenza	38	7.9	15.4	*	18.4	20.8	*	18.4	25.2	*
Chronic Obstructive Pulmonary Disease	9	0.0	6.7	*	0.0	10.8	*	22.2	14.9	*
Transient Cerebral Ischemia	6	0.0	2.4	*	0.0	5.2	*	33.3	8.2	*
Stroke	29	17.2	19.4	*	24.1	25.1	*	27.6	29.4	*
Hip Fracture	21	0.0	6.1	*	4.8	10.9	*	4.8	14.0	*
Sepsis	12	25.0	25.9	*	41.7	32.6	*	50.0	38.7	*
PROCEDURE:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	6	66.7	14.9	*	66.7	24.3	*	66.7	31.4	*
Carotid Endarterectomy	19	0.0	1.7	*	0.0	3.2	*	0.0	4.8	*
Hip Replacement/Reconstruction	6	0.0	4.8	*	0.0	9.4	*	0.0	12.5	*
Open Reduction of Hip Fracture	9	0.0	5.9	*	0.0	10.7	*	0.0	13.7	*
Prostatectomy	31	3.2	0.6	*	3.2	1.4	*	3.2	2.4	*
Cholecystectomy	13	15.4	4.8	*	23.1	8.9	*	23.1	11.7	*
Hysterectomy	11	0.0	0.4	*	0.0	0.9	*	0.0	1.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,085	10.1	8.5	1.2	14.8	12.6	1.6	18.5	16.1	1.9
CONDITIONS:										
Acute Myocardial Infarction	37	32.4	26.7	*	32.4	30.0	*	37.8	33.6	*
Congestive Heart Failure	51	11.8	14.1	6.7	17.6	21.1	6.4	29.4	27.4	6.5
Pneumonia/Influenza	57	17.5	17.5	5.1	26.3	23.6	7.1	29.8	28.5	7.9
Chronic Obstructive Pulmonary Disease	12	8.3	8.6	*	16.7	15.1	*	25.0	20.9	*
Transient Cerebral Ischemia	15	6.7	2.1	*	6.7	4.4	*	13.3	7.1	*
Stroke	58	12.1	20.1	9.4	25.9	26.5	7.1	29.3	31.2	6.4
Hip Fracture	23	13.0	6.6	*	21.7	11.9	*	21.7	15.5	*
Sepsis	9	44.4	28.5	*	55.6	35.9	*	66.7	41.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	8	0.0	4.2	*	12.5	8.7	*	25.0	12.8	*
Carotid Endarterectomy	18	5.6	1.3	*	5.6	2.4	*	5.6	3.5	*
Hip Replacement/Reconstruction	4	0.0	3.4	*	0.0	6.2	*	0.0	8.0	*
Open Reduction of Hip Fracture	12	16.7	6.0	*	33.3	11.6	*	33.3	15.4	*
Prostatectomy	63	0.0	1.0	1.5	0.0	2.3	2.8	1.6	3.9	3.4
Cholecystectomy	22	0.0	1.2	*	0.0	2.3	*	0.0	3.2	*
Hysterectomy	6	0.0	0.7	*	0.0	1.8	*	0.0	3.0	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

Westbrook Hospital

14 January 1991 230102

Health Care Financing Administration
Health Standards and Quality Bureau
Attention: Mrs. Sandra Kappert
2-D-2 Meadows East Building
6325 Security Boulevard
Baltimore, Maryland 21207

Dear Ms. Kappert:

This letter is in response to the Medicare Hospital Mortality Report we received last month. I wish to clarify some of the information found in the report. A short note on the history of our institution may help explain our situation.

Westbrook Hospital is a four-bed facility that specializes in elective surgical sterilizations. We were founded based on a need to maintain sterilization services for the people of our community after the two competing institutions entered into a joint venture forming a new hospital, Battle Creek Health System, a Catholic health care institution.

One of the partners in the joint venture, Community Hospital, had provided the sterilization services until the joint venture took place in July, 1988. When the decision was made to open a separate institution to continue the services, Community's license and Medicare number (230102) were transferred to the transitional institution, known as Women's Hospital. Women's Hospital consisted of two floors at the Community Hospital site, and encompassed all Labor and Delivery, Postpartum and Nursery care. There were, as reflected on Enclosure C, 56 registered nurses and 9 licensed practical nurses. However, Women's Hospital consisted of 30 beds, not 4.

On 27 February 1990, Westbrook Hospital officially opened. It occupies a portion of the eighth floor at the old Community Hospital site. At that time, Women's Hospital ceased to exist. As four beds were transferred to Westbrook Hospital, the other 26 from Women's Hospital were transferred to Battle Creek Health System. Labor and Delivery, Postpartum and Nursery services also transferred to Battle Creek Health System. Westbrook currently employs twelve registered nurses.

183 West Street Battle Creek, MI 49016 (616) 964-5900

All patients admitted between 1 July 1988 and 27 February 1990 were listed as Women's Hospital patients; all admitted 27 February 1990 and after are Westbrook Hospital patients. Therefore, the three patients listed on Enclosure D were Women's Hospital patients, not Westbrook patients, as listed on the form.

I hope this helps to explain our situation. My concerns are that the information you have pertains to Women's Hospital, not Westbrook Hospital, and could have adverse effects on our institution. It is rather inconvenient that both facilities share the same Medicare number and that this causes some confusion. Please feel free to contact me at any time if you require further clarification regarding this issue.

Thank you for your time.

Sincerely,

Brenda A. Payne, RN, C, MA

Brenda A. Payne, RN,C,MA
Director
616-964-5900

WESTLAND MEDICAL CENTER

2345 Merriman Rd
Westland, MI 48185

Medicare Provider Number: 230098

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	396	15.7	11.4	2.1	20.7	16.1	2.7	25.3	20.0	2.8
CONDITIONS:										
Acute Myocardial Infarction	18	55.6	30.2	*	55.6	33.4	*	55.6	37.0	*
Congestive Heart Failure	35	28.6	14.2	*	37.1	21.0	*	45.7	27.1	*
Pneumonia/Influenza	10	0.0	13.3	*	10.0	17.8	*	10.0	21.9	*
Chronic Obstructive Pulmonary Disease	11	18.2	13.9	*	18.2	22.7	*	27.3	29.5	*
Transient Cerebral Ischemia	5	20.0	2.3	*	20.0	5.4	*	20.0	8.6	*
Stroke	14	35.7	26.5	*	35.7	31.7	*	50.0	35.6	*
Hip Fracture	8	12.5	5.0	*	12.5	8.7	*	12.5	11.3	*
Sepsis	7	28.6	30.5	*	28.6	40.1	*	71.4	46.6	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	2	0.0	2.2	*	50.0	4.9	*	50.0	7.5	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	1	0.0	2.8	*	0.0	5.6	*	0.0	8.0	*
Open Reduction of Hip Fracture	4	25.0	3.9	*	25.0	7.3	*	25.0	9.9	*
Prostatectomy	3	0.0	0.7	*	0.0	1.8	*	0.0	3.0	*
Cholecystectomy	1	0.0	0.4	*	0.0	0.8	*	0.0	1.5	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	192
Occupancy Rate	70
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	61
Percent of Physicians Board Certified Specialists	52
Medical Residents/Interns	0
Registered Nurses	36
Licensed Practical Nurses	3

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	Yes

**** Not used in calculating hospital mortality rates.**

WESTLAND MEDICAL CENTER

Medicare Provider Number: 230098

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	428	7.5	7.5	1.3	13.3	11.4	1.7	17.5	14.7	2.0
CONDITIONS:										
Acute Myocardial Infarction	12	16.7	24.9	*	33.3	27.6	*	33.3	30.6	*
Congestive Heart Failure	21	4.8	13.2	*	14.3	20.2	*	23.8	26.6	*
Pneumonia/Influenza	19	10.5	10.9	*	10.5	15.1	*	15.8	18.9	*
Chronic Obstructive Pulmonary Disease	15	6.7	9.3	*	20.0	15.8	*	33.3	21.3	*
Transient Cerebral Ischemia	3	0.0	2.6	*	0.0	5.5	*	0.0	8.7	*
Stroke	12	25.0	19.1	*	41.7	25.2	*	41.7	29.3	*
Hip Fracture	7	0.0	4.6	*	14.3	8.4	*	14.3	10.9	*
Sepsis	12	25.0	19.1	*	41.7	24.4	*	41.7	29.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	33.3	24.4	*	66.7	30.5	*	66.7	35.4	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	2	0.0	4.0	*	0.0	8.3	*	0.0	11.5	*
Open Reduction of Hip Fracture	6	0.0	4.2	*	16.7	8.1	*	16.7	10.8	*
Prostatectomy	7	0.0	0.7	*	0.0	1.6	*	0.0	2.6	*
Cholecystectomy	4	0.0	2.3	*	25.0	5.1	*	25.0	7.5	*
Hysterectomy	1	0.0	0.1	*	0.0	0.1	*	0.0	0.2	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	392	14.5	11.8	2.8	18.4	16.7	2.5	20.4	20.3	2.5
CONDITIONS:										
Acute Myocardial Infarction	15	60.0	35.2	*	60.0	39.8	*	60.0	43.8	*
Congestive Heart Failure	24	16.7	16.9	*	20.8	23.9	*	29.2	30.3	*
Pneumonia/Influenza	14	28.6	21.9	*	28.6	29.5	*	28.6	35.1	*
Chronic Obstructive Pulmonary Disease	19	15.8	15.7	*	15.8	23.7	*	15.8	29.6	*
Transient Cerebral Ischemia	6	0.0	1.3	*	0.0	2.5	*	0.0	3.7	*
Stroke	11	18.2	23.0	*	27.3	31.3	*	36.4	36.2	*
Hip Fracture	13	15.4	6.6	*	30.8	11.4	*	30.8	14.5	*
Sepsis	5	40.0	24.5	*	60.0	33.6	*	60.0	39.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	3	0.0	3.4	*	0.0	6.1	*	0.0	9.3	*
Carotid Endarterectomy	2	0.0	1.7	*	0.0	3.5	*	0.0	5.5	*
Hip Replacement/Reconstruction	3	0.0	6.0	*	0.0	10.6	*	0.0	13.5	*
Open Reduction of Hip Fracture	7	0.0	4.9	*	14.3	9.1	*	14.3	12.0	*
Prostatectomy	6	16.7	4.3	*	33.3	9.5	*	33.3	13.7	*
Cholecystectomy	3	0.0	1.7	*	0.0	3.1	*	0.0	4.2	*
Hysterectomy	1	0.0	0.6	*	0.0	1.2	*	0.0	1.5	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

WHEELOCK MEMORIAL HOSPITAL

7280 State Rd
Goodrich, MI 48438

Medicare Provider Number: 230111

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	190	10.5	10.6	2.4	15.8	15.6	3.4	17.4	19.5	4.1
CONDITIONS:										
Acute Myocardial Infarction	14	21.4	24.5	*	28.6	27.9	*	35.7	31.1	*
Congestive Heart Failure	16	18.8	15.1	*	37.5	24.4	*	37.5	31.9	*
Pneumonia/Influenza	19	0.0	20.6	*	10.5	27.7	*	10.5	33.1	*
Chronic Obstructive Pulmonary Disease	0									
Transient Cerebral Ischemia	7	0.0	1.5	*	0.0	3.2	*	0.0	5.0	*
Stroke	7	14.3	19.2	*	28.6	26.0	*	28.6	30.2	*
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	3	0.0	1.0	*	0.0	2.3	*	0.0	3.9	*
Cholecystectomy	7	0.0	1.4	*	0.0	2.2	*	0.0	2.9	*
Hysterectomy	2	0.0	0.4	*	0.0	0.8	*	0.0	1.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	31
Occupancy Rate	36
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	32
Percent of Physicians Board Certified Specialists	28
Medical Residents/Interns	0
Registered Nurses	17
Licensed Practical Nurses	4

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	Yes
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

WHEELOCK MEMORIAL HOSPITAL

Medicare Provider Number: 230111

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	200	9.5	10.1	2.2	14.5	14.6	2.5	19.5	18.2	3.3
CONDITIONS:										
Acute Myocardial Infarction	11	27.3	27.1	*	27.3	30.7	*	27.3	34.5	*
Congestive Heart Failure	9	33.3	18.5	*	55.6	26.9	*	66.7	33.5	*
Pneumonia/Influenza	8	12.5	17.4	*	12.5	23.2	*	37.5	27.8	*
Chronic Obstructive Pulmonary Disease	4	0.0	13.3	*	25.0	22.3	*	25.0	29.2	*
Transient Cerebral Ischemia	7	0.0	2.1	*	0.0	4.9	*	0.0	7.8	*
Stroke	17	11.8	20.1	*	23.5	28.6	*	35.3	33.8	*
Hip Fracture	0									
Sepsis	4	0.0	25.1	*	0.0	31.0	*	0.0	35.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	6	0.0	0.9	*	0.0	2.1	*	0.0	3.2	*
Cholecystectomy	6	0.0	1.0	*	0.0	2.0	*	0.0	2.9	*
Hysterectomy	1	0.0	0.2	*	0.0	0.5	*	0.0	0.8	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	186	8.1	8.2	2.6	11.3	11.9	2.4	14.5	15.0	2.7
CONDITIONS:										
Acute Myocardial Infarction	13	7.7	21.3	*	30.8	24.4	*	38.5	27.7	*
Congestive Heart Failure	14	28.6	17.0	*	28.6	26.0	*	28.6	33.4	*
Pneumonia/Influenza	8	25.0	19.4	*	37.5	26.1	*	50.0	31.4	*
Chronic Obstructive Pulmonary Disease	2	0.0	13.7	*	0.0	20.0	*	0.0	24.8	*
Transient Cerebral Ischemia	7	14.3	2.1	*	14.3	4.5	*	14.3	7.3	*
Stroke	5	0.0	24.6	*	0.0	32.1	*	0.0	36.9	*
Hip Fracture	0									
Sepsis	2	0.0	33.8	*	0.0	40.4	*	0.0	46.8	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	6	0.0	1.0	*	0.0	2.3	*	0.0	3.6	*
Cholecystectomy	5	0.0	1.5	*	0.0	2.5	*	0.0	3.3	*
Hysterectomy	1	0.0	2.5	*	0.0	4.9	*	0.0	6.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

WILLIAM BEAUMONT HOSPITAL

3601 W 13 Mile Road
Royal Oak, MI 48072

Medicare Provider Number: 230130

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	7,790	8.7	9.2	0.4	13.4	14.2	0.5	16.8	18.0	0.6
CONDITIONS:										
Acute Myocardial Infarction	308	24.4	25.8	3.1	29.2	29.9	4.2	31.2	33.5	4.1
Congestive Heart Failure	317	16.1	16.8	2.8	25.2	25.9	2.9	33.1	33.1	4.3
Pneumonia/Influenza	172	18.6	18.3	3.7	24.4	25.0	3.3	29.7	30.0	3.6
Chronic Obstructive Pulmonary Disease	76	9.2	12.5	4.1	15.8	19.6	5.7	17.1	25.3	7.0
Transient Cerebral Ischemia	117	0.9	2.2	1.6	2.6	5.0	2.9	2.6	7.9	3.6
Stroke	287	12.9	20.7	3.3	18.8	27.7	3.7	24.0	32.2	3.5
Hip Fracture	196	3.6	6.8	3.0	9.7	12.2	3.2	12.2	15.8	4.3
Sepsis	116	33.6	28.9	4.9	45.7	37.2	6.6	50.0	43.2	6.9
PROCEDURES:										
Angioplasty	236	9.3	4.6	2.5	9.7	5.8	2.4	11.0	7.2	2.5
Coronary Artery Bypass Graft	280	7.5	5.6	1.9	10.7	7.9	2.7	12.9	9.5	3.2
Initial Pacemaker Insertion	33	0.0	3.5	*	3.0	6.7	*	6.1	9.5	*
Carotid Endarterectomy	48	0.0	1.4	*	0.0	2.6	*	0.0	3.9	*
Hip Replacement/Reconstruction	185	2.7	3.1	1.3	5.4	5.9	1.9	8.1	8.0	2.9
Open Reduction of Hip Fracture	101	2.0	6.4	3.5	7.9	11.9	5.2	7.9	15.5	5.7
Prostatectomy	280	1.1	0.8	0.6	1.8	2.1	0.9	3.2	3.6	1.4
Cholecystectomy	153	0.7	3.4	2.0	3.3	5.8	2.3	6.5	7.5	2.3
Hysterectomy	74	0.0	0.6	*	0.0	1.4	*	0.0	2.1	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	929
Occupancy Rate	77
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	769
Percent of Physicians Board Certified Specialists	89
Medical Residents/Interns	260
Registered Nurses	988
Licensed Practical Nurses	145

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	Yes
Comprehensive Geriatric	Yes
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	Yes
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	Yes

**** Not used in calculating hospital mortality rates.**

WILLIAM BEAUMONT HOSPITAL

Medicare Provider Number: 230130

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	7,550	8.2	8.9	0.5	13.0	13.7	0.6	16.5	17.4	0.6
CONDITIONS:										
Acute Myocardial Infarction	273	21.2	25.4	3.3	25.6	29.3	3.4	27.8	33.2	4.1
Congestive Heart Failure	274	11.7	16.8	4.1	24.1	25.6	4.8	28.5	32.6	4.0
Pneumonia/Influenza	174	15.5	18.7	4.2	23.0	25.2	3.5	27.6	30.1	3.8
Chronic Obstructive Pulmonary Disease	101	13.9	14.0	5.5	17.8	21.7	7.0	20.8	27.4	7.3
Transient Cerebral Ischemia	109	1.8	1.8	1.3	2.8	3.8	2.1	5.5	6.0	2.4
Stroke	265	14.0	21.6	4.1	21.9	28.7	4.0	26.4	33.2	4.2
Hip Fracture	190	5.8	6.4	2.9	8.9	11.8	3.7	13.2	15.3	3.6
Sepsis	73	28.8	32.7	8.3	46.6	42.1	8.0	54.8	48.5	10.3
PROCEDURES:										
Angioplasty	181	3.9	3.3	1.5	6.1	4.3	2.4	7.7	5.4	3.6
Coronary Artery Bypass Graft	204	6.9	5.6	1.9	9.3	8.3	2.1	10.8	10.0	2.3
Initial Pacemaker Insertion	42	0.0	3.9	*	7.1	6.7	*	9.5	9.2	*
Carotid Endarterectomy	52	1.9	1.4	1.8	1.9	2.7	2.3	1.9	3.9	3.2
Hip Replacement/Reconstruction	170	1.2	2.4	1.5	2.9	4.8	2.0	5.9	6.5	1.9
Open Reduction of Hip Fracture	108	4.6	5.6	3.5	8.3	10.6	4.9	11.1	14.0	5.2
Prostatectomy	231	0.9	0.9	0.7	2.2	2.2	1.2	3.5	3.5	1.3
Cholecystectomy	137	2.9	3.1	2.4	2.9	5.7	3.3	5.1	7.4	3.3
Hysterectomy	75	0.0	0.7	1.1	0.0	1.3	1.7	1.3	1.9	1.7

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	6,864	8.5	9.5	0.5	12.7	14.4	0.6	16.3	18.2	0.6
CONDITIONS:										
Acute Myocardial Infarction	301	22.3	28.4	3.6	23.9	32.1	4.2	26.2	35.7	4.6
Congestive Heart Failure	234	17.9	19.2	3.4	27.4	28.5	3.2	37.6	35.9	3.8
Pneumonia/Influenza	172	18.6	18.7	3.0	25.6	25.4	3.8	30.8	30.5	4.1
Chronic Obstructive Pulmonary Disease	121	11.6	13.4	3.9	14.0	21.0	4.7	20.7	26.6	5.5
Transient Cerebral Ischemia	104	2.9	1.9	2.0	4.8	4.0	2.2	7.7	6.2	2.6
Stroke	223	15.2	20.6	4.8	22.9	28.1	5.3	27.8	32.7	5.0
Hip Fracture	172	4.1	7.2	2.9	8.7	13.0	3.7	12.8	16.6	3.7
Sepsis	61	24.6	30.5	10.0	49.2	39.9	9.3	54.1	46.8	9.1
PROCEDURES:										
Angioplasty	68	2.9	3.8	4.8	2.9	5.1	4.6	4.4	6.5	4.2
Coronary Artery Bypass Graft	159	4.4	6.1	2.3	5.0	8.1	3.0	5.7	9.2	3.3
Initial Pacemaker Insertion	38	5.3	3.6	*	5.3	6.8	*	7.9	9.6	*
Carotid Endarterectomy	74	0.0	1.4	1.8	1.4	2.6	2.2	4.1	3.7	2.4
Hip Replacement/Reconstruction	118	0.8	3.0	2.0	3.4	5.8	2.6	6.8	7.9	2.6
Open Reduction of Hip Fracture	108	4.6	6.5	2.7	9.3	12.2	3.9	12.0	16.0	5.4
Prostatectomy	232	1.3	1.0	0.9	2.6	2.5	1.6	3.4	4.2	1.8
Cholecystectomy	118	2.5	2.5	2.0	2.5	4.6	2.7	2.5	6.2	3.2
Hysterectomy	68	1.5	0.9	1.4	1.5	1.8	1.7	1.5	2.6	2.2

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

WILLIAM BEAUMONT HOSPITAL

44201 Dequindre
Troy, MI 48098

Medicare Provider Number: 230269

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,155	8.4	9.2	0.7	12.9	13.9	0.8	15.8	17.7	1.1
CONDITIONS:										
Acute Myocardial Infarction	61	32.8	25.4	9.8	36.1	28.5	9.7	36.1	31.9	7.9
Congestive Heart Failure	83	8.4	15.8	6.2	20.5	24.1	5.8	28.9	30.8	5.2
Pneumonia/Influenza	80	20.0	16.3	8.2	27.5	22.1	8.5	31.3	26.7	9.2
Chronic Obstructive Pulmonary Disease	30	0.0	5.2	*	0.0	10.2	*	6.7	14.8	*
Transient Cerebral Ischemia	36	0.0	1.8	*	0.0	3.9	*	2.8	6.2	*
Stroke	93	22.6	21.0	4.3	32.3	27.9	5.4	35.5	32.4	6.4
Hip Fracture	50	4.0	7.6	*	16.0	13.3	*	16.0	16.9	*
Sepsis	44	38.6	27.3	*	43.2	35.5	*	45.5	41.5	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	1	0.0	2.3	*	0.0	3.0	*	0.0	3.7	*
Initial Pacemaker Insertion	4	0.0	4.0	*	25.0	8.8	*	50.0	13.4	*
Carotid Endarterectomy	12	8.3	1.3	*	8.3	2.3	*	8.3	3.3	*
Hip Replacement/Reconstruction	26	3.8	4.1	*	11.5	8.0	*	11.5	11.0	*
Open Reduction of Hip Fracture	29	6.9	7.2	*	20.7	12.8	*	20.7	16.3	*
Prostatectomy	161	0.6	1.1	0.9	1.2	2.4	1.5	1.2	3.8	2.1
Cholecystectomy	54	0.0	2.3	3.1	1.9	4.1	4.5	3.7	5.4	4.9
Hysterectomy	17	0.0	0.2	*	0.0	0.6	*	0.0	0.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	189
Occupancy Rate	71
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	334
Percent of Physicians Board Certified Specialists	86
Medical Residents/Interns	12
Registered Nurses	234
Licensed Practical Nurses	6

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

WILLIAM BEAUMONT HOSPITAL

Medicare Provider Number: 230269

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,001	9.3	9.5	0.8	14.1	14.2	0.9	17.4	17.9	1.1
CONDITIONS:										
Acute Myocardial Infarction	73	16.4	27.1	6.7	16.4	30.4	8.1	24.7	34.0	6.7
Congestive Heart Failure	70	14.3	16.0	4.7	22.9	24.3	5.9	27.1	31.3	9.0
Pneumonia/Influenza	68	23.5	19.0	6.5	29.4	25.7	7.1	32.4	30.7	6.1
Chronic Obstructive Pulmonary Disease	36	8.3	4.9	*	19.4	9.1	*	25.0	12.7	*
Transient Cerebral Ischemia	43	2.3	2.0	*	7.0	4.5	*	9.3	7.2	*
Stroke	76	22.4	22.1	5.3	32.9	29.1	6.7	35.5	33.7	6.9
Hip Fracture	50	8.0	8.2	*	12.0	14.3	*	20.0	17.8	*
Sepsis	32	28.1	29.5	*	31.3	36.0	*	40.6	41.3	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	2	0.0	3.5	*	0.0	4.5	*	0.0	5.4	*
Initial Pacemaker Insertion	5	20.0	3.8	*	20.0	6.1	*	20.0	8.4	*
Carotid Endarterectomy	5	0.0	2.0	*	0.0	4.4	*	0.0	6.4	*
Hip Replacement/Reconstruction	36	5.6	4.3	*	11.1	8.0	*	19.4	10.3	*
Open Reduction of Hip Fracture	21	4.8	7.3	*	4.8	13.4	*	9.5	17.2	*
Prostatectomy	139	0.0	0.8	1.1	0.0	2.0	2.1	1.4	3.3	2.1
Cholecystectomy	63	0.0	1.6	2.2	1.6	2.8	2.9	1.6	3.6	3.0
Hysterectomy	17	0.0	0.2	*	0.0	0.4	*	0.0	0.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,781	9.6	9.2	0.8	14.3	13.7	1.0	17.4	17.1	1.0
CONDITIONS:										
Acute Myocardial Infarction	68	27.9	27.7	5.6	29.4	31.4	6.1	30.9	34.9	8.0
Congestive Heart Failure	79	27.8	17.6	7.7	35.4	26.2	7.5	39.2	33.1	6.5
Pneumonia/Influenza	61	23.0	18.7	7.8	29.5	25.2	9.5	32.8	30.1	9.8
Chronic Obstructive Pulmonary Disease	31	3.2	6.4	*	6.5	11.2	*	12.9	15.4	*
Transient Cerebral Ischemia	30	0.0	1.8	*	0.0	3.9	*	0.0	6.2	*
Stroke	61	18.0	24.1	7.3	24.6	31.8	7.0	37.7	36.4	6.3
Hip Fracture	49	8.2	7.1	*	14.3	12.6	*	18.4	16.1	*
Sepsis	7	14.3	32.6	*	14.3	44.8	*	28.6	51.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	7	14.3	3.6	*	14.3	7.0	*	14.3	9.8	*
Carotid Endarterectomy	8	0.0	2.2	*	12.5	4.2	*	12.5	6.0	*
Hip Replacement/Reconstruction	21	0.0	2.9	*	0.0	5.2	*	0.0	6.6	*
Open Reduction of Hip Fracture	30	6.7	6.3	*	13.3	11.8	*	20.0	15.4	*
Prostatectomy	127	0.8	1.0	0.9	1.6	2.3	1.4	1.6	3.8	2.2
Cholecystectomy	38	2.6	1.8	*	5.3	3.2	*	5.3	4.2	*
Hysterectomy	10	0.0	0.4	*	0.0	0.8	*	0.0	1.3	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

WYANDOTTE HOSPITAL & MEDICAL CENTER

2333 Biddle Ave
Wyandotte, MI 48192

Medicare Provider Number: 230146

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,258	9.3	9.8	1.1	13.8	14.6	1.1	17.9	18.3	0.9
CONDITIONS:										
Acute Myocardial Infarction	83	44.6	27.7	7.4	48.2	30.9	7.9	53.0	34.2	7.9
Congestive Heart Failure	152	13.2	15.8	5.0	19.7	24.2	5.9	30.3	31.1	4.3
Pneumonia/Influenza	96	9.4	16.3	6.0	13.5	21.9	7.2	17.7	26.5	7.4
Chronic Obstructive Pulmonary Disease	36	5.6	14.4	*	16.7	21.1	*	19.4	26.4	*
Transient Cerebral Ischemia	47	0.0	1.8	*	2.1	3.9	*	6.4	6.2	*
Stroke	89	15.7	20.0	6.1	23.6	26.4	8.0	27.0	30.6	5.9
Hip Fracture	32	3.1	8.4	*	6.3	14.8	*	9.4	18.9	*
Sepsis	30	16.7	27.2	*	16.7	35.4	*	23.3	41.2	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	9	0.0	6.0	*	0.0	10.5	*	0.0	14.6	*
Carotid Endarterectomy	20	0.0	1.4	*	0.0	2.6	*	0.0	3.8	*
Hip Replacement/Reconstruction	35	0.0	3.3	*	0.0	5.9	*	0.0	7.6	*
Open Reduction of Hip Fracture	16	6.3	7.8	*	12.5	14.2	*	18.8	18.5	*
Prostatectomy	52	3.8	0.9	2.4	3.8	2.3	2.3	3.8	3.9	2.7
Cholecystectomy	49	0.0	1.8	*	0.0	2.9	*	2.0	3.7	*
Hysterectomy	9	0.0	0.9	*	0.0	1.8	*	0.0	2.4	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	359
Occupancy Rate	76
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	192
Percent of Physicians Board Certified Specialists	71
Medical Residents/Interns	0
Registered Nurses	342
Licensed Practical Nurses	38

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	Yes
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	Yes
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

WYANDOTTE HOSPITAL & MEDICAL CENTER

Medicare Provider Number: 230146

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	2,157	10.3	10.4	0.7	16.0	15.6	0.8	19.7	19.6	0.9
CONDITIONS:										
Acute Myocardial Infarction	61	41.0	27.1	7.4	42.6	30.3	7.2	42.6	33.8	7.1
Congestive Heart Failure	154	20.1	17.7	5.2	27.9	26.8	4.2	35.1	33.9	4.1
Pneumonia/Influenza	105	21.0	20.5	4.6	32.4	27.6	7.3	38.1	33.0	8.1
Chronic Obstructive Pulmonary Disease	61	8.2	12.1	5.3	16.4	19.1	5.3	24.6	24.4	5.8
Transient Cerebral Ischemia	39	0.0	2.0	*	2.6	4.1	*	2.6	6.4	*
Stroke	69	11.6	20.6	9.2	23.2	28.0	8.5	26.1	32.6	9.7
Hip Fracture	48	4.2	6.7	*	14.6	11.7	*	14.6	14.8	*
Sepsis	30	16.7	26.6	*	23.3	35.5	*	36.7	41.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	19	10.5	7.6	*	10.5	11.2	*	10.5	14.7	*
Carotid Endarterectomy	15	6.7	1.4	*	6.7	2.6	*	6.7	3.8	*
Hip Replacement/Reconstruction	42	7.1	3.1	*	7.1	5.6	*	7.1	7.2	*
Open Reduction of Hip Fracture	25	4.0	6.8	*	24.0	12.5	*	24.0	16.0	*
Prostatectomy	43	0.0	0.9	*	0.0	2.2	*	0.0	3.6	*
Cholecystectomy	62	3.2	3.3	3.0	4.8	5.8	5.0	4.8	7.4	5.5
Hysterectomy	19	0.0	0.3	*	0.0	0.6	*	0.0	0.9	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	1,896	10.2	10.8	0.8	15.6	16.1	1.2	19.4	20.3	1.3
CONDITIONS:										
Acute Myocardial Infarction	65	32.3	29.8	5.8	33.8	32.9	6.0	33.8	36.0	6.1
Congestive Heart Failure	132	18.9	18.4	3.8	28.8	27.3	4.5	36.4	34.5	6.1
Pneumonia/Influenza	60	21.7	16.4	6.4	31.7	21.9	9.0	35.0	26.6	9.4
Chronic Obstructive Pulmonary Disease	81	13.6	15.9	5.1	19.8	24.7	8.6	24.7	31.0	9.1
Transient Cerebral Ischemia	44	2.3	2.2	*	6.8	4.4	*	11.4	6.9	*
Stroke	82	17.1	19.8	5.0	26.8	26.9	5.0	31.7	31.4	5.1
Hip Fracture	43	11.6	8.1	*	16.3	14.2	*	20.9	18.0	*
Sepsis	23	17.4	28.5	*	26.1	37.1	*	30.4	43.4	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	13	0.0	6.2	*	0.0	10.6	*	7.7	14.6	*
Carotid Endarterectomy	9	11.1	2.2	*	22.2	4.9	*	22.2	7.7	*
Hip Replacement/Reconstruction	43	9.3	3.8	*	14.0	6.9	*	18.6	8.9	*
Open Reduction of Hip Fracture	25	12.0	7.6	*	12.0	14.1	*	12.0	18.2	*
Prostatectomy	52	0.0	1.0	*	0.0	2.3	*	0.0	3.8	*
Cholecystectomy	39	0.0	3.0	*	0.0	4.9	*	0.0	6.0	*
Hysterectomy	12	0.0	2.0	*	0.0	4.4	*	0.0	6.6	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

YALE COMMUNITY HOSPITAL INC

420 North Street
Yale, MI 48097

Medicare Provider Number: 230232

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	117	11.1	9.2	3.7	16.2	13.9	4.2	18.8	17.9	4.7
CONDITIONS:										
Acute Myocardial Infarction	1	0.0	45.9	*	0.0	48.9	*	0.0	52.4	*
Congestive Heart Failure	7	42.9	15.9	*	57.1	25.1	*	57.1	32.7	*
Pneumonia/Influenza	17	5.9	14.5	*	11.8	19.7	*	17.6	23.8	*
Chronic Obstructive Pulmonary Disease	11	0.0	3.5	*	0.0	7.0	*	0.0	10.5	*
Transient Cerebral Ischemia	5	0.0	2.3	*	20.0	5.5	*	20.0	9.2	*
Stroke	2	0.0	14.1	*	0.0	19.0	*	0.0	22.8	*
Hip Fracture	0									
Sepsis	2	50.0	30.2	*	50.0	40.6	*	50.0	49.1	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	1	0.0	0.8	*	0.0	1.3	*	0.0	1.7	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	22
Occupancy Rate	18
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	8
Percent of Physicians Board Certified Specialists	100
Medical Residents/Interns	0
Registered Nurses	6
Licensed Practical Nurses	4

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

YALE COMMUNITY HOSPITAL INC

Medicare Provider Number: 230232

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	124	14.5	13.9	5.2	22.6	20.4	4.5	24.2	25.1	4.0
CONDITIONS:										
Acute Myocardial Infarction	2	50.0	27.2	*	50.0	30.9	*	50.0	34.5	*
Congestive Heart Failure	8	37.5	23.0	*	37.5	34.1	*	37.5	41.4	*
Pneumonia/Influenza	27	14.8	19.7	*	22.2	26.1	*	22.2	30.9	*
Chronic Obstructive Pulmonary Disease	8	12.5	10.6	*	25.0	19.0	*	25.0	25.8	*
Transient Cerebral Ischemia	1	0.0	5.0	*	0.0	11.1	*	0.0	18.0	*
Stroke	7	14.3	19.3	*	14.3	27.4	*	28.6	32.5	*
Hip Fracture	0									
Sepsis	0									
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	0									
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	123	12.2	15.0	4.1	21.1	21.6	3.8	26.0	26.3	4.6
CONDITIONS:										
Acute Myocardial Infarction	5	0.0	34.9	*	40.0	40.4	*	40.0	44.4	*
Congestive Heart Failure	13	7.7	19.5	*	23.1	29.5	*	38.5	36.9	*
Pneumonia/Influenza	21	9.5	16.5	*	14.3	21.7	*	14.3	26.3	*
Chronic Obstructive Pulmonary Disease	3	0.0	7.7	*	0.0	12.3	*	0.0	15.7	*
Transient Cerebral Ischemia	1	0.0	1.2	*	0.0	2.5	*	0.0	4.0	*
Stroke	10	30.0	17.0	*	40.0	23.6	*	40.0	27.8	*
Hip Fracture	0									
Sepsis	4	25.0	31.4	*	25.0	37.1	*	25.0	41.7	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	0									
Open Reduction of Hip Fracture	0									
Prostatectomy	0									
Cholecystectomy	1	0.0	0.8	*	0.0	1.5	*	0.0	2.0	*
Hysterectomy	0									

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

ZEELAND COMMUNITY HOSPITAL

129 South Taft Street
Zeeland, MI 49464

Medicare Provider Number: 230003

The mortality rate tables present post-admission probabilities of death of patients treated at this hospital. Displayed are the observed mortality rate (OBS), the mortality rate predicted on the basis of the characteristics of the patients (PRED), and the standard deviation of the predicted rate (SD), a measure of the uncertainty of that rate.

FY 1989 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%) 30 DAYS OBS	30 DAYS PRED	30 DAYS SD	90 DAYS OBS	90 DAYS PRED	90 DAYS SD	180 DAYS OBS	180 DAYS PRED	180 DAYS SD
ALL CAUSES	473	7.6	8.1	1.3	11.4	12.5	2.1	13.7	16.0	2.8
CONDITIONS:										
Acute Myocardial Infarction	10	30.0	31.9	*	50.0	35.1	*	50.0	38.7	*
Congestive Heart Failure	22	9.1	15.6	*	13.6	24.3	*	13.6	31.5	*
Pneumonia/Influenza	32	15.6	14.2	*	15.6	19.4	*	21.9	23.8	*
Chronic Obstructive Pulmonary Disease	2	0.0	6.5	*	0.0	11.0	*	0.0	15.2	*
Transient Cerebral Ischemia	5	0.0	1.5	*	0.0	3.3	*	0.0	5.3	*
Stroke	19	21.1	15.6	*	26.3	21.6	*	31.6	25.8	*
Hip Fracture	21	0.0	5.2	*	0.0	9.6	*	0.0	12.7	*
Sepsis	2	0.0	36.1	*	0.0	45.1	*	0.0	52.0	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	1	0.0	3.7	*	0.0	6.6	*	0.0	9.3	*
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	5	0.0	5.1	*	0.0	9.9	*	0.0	13.3	*
Open Reduction of Hip Fracture	13	0.0	4.5	*	0.0	8.6	*	0.0	11.4	*
Prostatectomy	38	0.0	0.9	*	2.6	2.3	*	2.6	4.0	*
Cholecystectomy	18	0.0	1.4	*	0.0	2.3	*	0.0	2.9	*
Hysterectomy	10	10.0	0.5	*	10.0	1.1	*	10.0	1.7	*

*** The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.**

HOSPITAL CHARACTERISTICS **

SOURCE: American Hospital Association Annual Survey of Hospitals - 1989

Total Beds	55
Occupancy Rate	46
Ownership/Control	Private, Non-Profit

STAFFING: (As of September 30, 1989)

Total Number of Physicians	46
Percent of Physicians Board Certified Specialists	70
Medical Residents/Interns	0
Registered Nurses	42
Licensed Practical Nurses	33

SPECIALTY SERVICES:

Burn Unit	No
Cardiac Intensive Care	No
Comprehensive Geriatric	No
Hospice Care	No
Medical/Surgical Intensive Care	No
Organ/Tissue Transplant	No
Other Intensive Care	No
Rehabilitation Unit	No
Trauma Center	No

**** Not used in calculating hospital mortality rates.**

ZEELAND COMMUNITY HOSPITAL

Medicare Provider Number: 230003

FY 1988 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	460	12.2	9.9	1.8	15.9	14.6	1.8	18.3	18.3	1.8
CONDITIONS:										
Acute Myocardial Infarction	20	35.0	29.6	*	40.0	33.0	*	40.0	36.4	*
Congestive Heart Failure	33	18.2	14.9	*	21.2	22.6	*	30.3	29.1	*
Pneumonia/Influenza	30	16.7	21.1	*	20.0	27.8	*	20.0	32.7	*
Chronic Obstructive Pulmonary Disease	3	0.0	5.2	*	0.0	10.7	*	0.0	15.7	*
Transient Cerebral Ischemia	7	0.0	1.6	*	0.0	3.5	*	0.0	5.5	*
Stroke	18	16.7	23.5	*	16.7	31.7	*	22.2	36.7	*
Hip Fracture	19	15.8	7.5	*	26.3	13.5	*	26.3	17.2	*
Sepsis	8	37.5	21.8	*	37.5	28.9	*	37.5	33.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	9	22.2	8.1	*	33.3	15.1	*	33.3	19.1	*
Open Reduction of Hip Fracture	4	0.0	5.4	*	0.0	10.4	*	0.0	13.9	*
Prostatectomy	35	0.0	1.1	*	0.0	2.7	*	0.0	4.5	*
Cholecystectomy	24	12.5	3.0	*	12.5	5.9	*	16.7	8.0	*
Hysterectomy	3	0.0	0.2	*	0.0	0.4	*	0.0	0.5	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

FY 1987 MEDICARE HOSPITAL MORTALITY RATES

CATEGORY	NUMBER OF CASES	MORTALITY RATES (%)								
		30 DAYS			90 DAYS			180 DAYS		
		OBS	PRED	SD	OBS	PRED	SD	OBS	PRED	SD
ALL CAUSES	425	10.1	8.7	2.1	17.2	13.5	2.5	21.9	17.2	2.9
CONDITIONS:										
Acute Myocardial Infarction	13	38.5	27.9	*	46.2	31.3	*	46.2	34.8	*
Congestive Heart Failure	25	12.0	17.4	*	36.0	26.1	*	40.0	33.2	*
Pneumonia/Influenza	27	7.4	16.6	*	22.2	22.3	*	33.3	27.0	*
Chronic Obstructive Pulmonary Disease	2	0.0	4.3	*	0.0	8.4	*	0.0	12.4	*
Transient Cerebral Ischemia	11	9.1	2.0	*	9.1	4.3	*	9.1	6.8	*
Stroke	20	15.0	18.8	*	20.0	25.3	*	25.0	29.8	*
Hip Fracture	15	20.0	6.8	*	26.7	12.5	*	40.0	16.3	*
Sepsis	11	27.3	19.9	*	45.5	30.9	*	54.5	37.9	*
PROCEDURES:										
Angioplasty	0									
Coronary Artery Bypass Graft	0									
Initial Pacemaker Insertion	0									
Carotid Endarterectomy	0									
Hip Replacement/Reconstruction	4	50.0	7.5	*	50.0	14.3	*	75.0	18.8	*
Open Reduction of Hip Fracture	3	33.3	7.1	*	33.3	13.1	*	66.7	17.0	*
Prostatectomy	30	0.0	0.8	*	3.3	2.1	*	6.7	3.6	*
Cholecystectomy	16	12.5	2.1	*	12.5	3.8	*	12.5	4.9	*
Hysterectomy	6	0.0	0.4	*	0.0	0.6	*	0.0	0.9	*

* The number of cases or deaths in this category is too small to permit satisfactory estimation of the standard deviation.

Technical Appendix

TECHNICAL APPENDIX

Data Sources

The data analyzed in this report are obtained from the MEDPAR file, which contains summary information on the hospitalizations of Medicare beneficiaries. The principal sources of data for this file are the bills (known as HCFA-1450 or UB-82) submitted by the hospitals to HCFA through fiscal intermediaries. The MEDPAR file also contains data about the beneficiaries, such as age, sex and date of death, which are obtained from the Social Security Administration or the Railroad Retirement Board.

Hospitalizations with discharges in fiscal years 1987, 1988 and 1989 were used in these analyses. Hospitalizations in 1986 were used only to characterize the prior admissions of the patients in the 1987 cohort. Only acute-care hospitalizations in short-term (general and specialty) hospitals were selected. These hospitals have a “0” in the third position of their Medicare provider number. Hospitalizations in special cost centers, designated by a “9” in the fourth position of the provider number, and hospitalizations in psychiatric units, rehabilitation units, swing-beds and alcohol/drug units, with "special unit codes" of S, T, U and V, respectively, in the third position were excluded.

The Mortality Model

For each beneficiary in each year one hospitalization was selected at random. Choosing a specific hospitalization is necessary to avoid multiple counting of the same death for that year. Selecting a random hospitalization instead of the first or last in the year produces mortality rates that are more representative of the rates that a hospital might calculate for its patients. Also, the mortality rates based on this random selection process reflect an intermediate position between the rates produced by the alternatives.

The selected hospitalizations were then segregated by analytical category and analyzed separately. The analytic categories were created by grouping ICD-9-CM diagnosis codes that had similar raw mortality rates and clinical definitions. The groupings fall into five risk levels: low, average, moderately severe, very severe and catastrophic. Within these risk levels, codes are further grouped based on clinical similarities. The analytic categories and the groups of ICD-9-CM diagnosis codes that defined them are listed in Table A-1.

The mortality experience of the patients was evaluated as a function of time within 182 days of the admission. The factors included in the mortality model used to evaluate the patients' probability of death are given in Table A-2. They consist of demographic characteristics (age and sex), major comorbidities (chronic diseases likely to have been present at admission and believed to complicate management and increase the likelihood of an adverse outcome), prior admissions (grouped into five risk or severity levels) within the six months preceding the admission evaluated, admission type (emergent, elective, etc.), and admission source (referral from the physician's office, the nursing facility, etc.). The specific reason for the admission (the principal diagnosis) and the performance of selected surgical procedures were additional factors used in the estimation of the predicted probability of death (see below).

The observed mortality rate for a hospital was calculated by means of the lifetable method ("The LIFETEST Procedure", Chapter 22, SAS User's Guide: Statistics, Version 5 Edition, pages 529-557).

Analytic Techniques

A time-to-event or survival model with explanatory or concomitant variables was used to ascertain the influence of the patient characteristics listed above on the probability of death. A feature of such a model is allowance for "right censored" observations. Generally, these are events or outcomes which would have occurred but for some interference that prevents further observation. In the present analysis, "right censoring" occurs when a patient is withdrawn alive from the study at the end of the followup period of 182 days.

The survival function, S(t), is one of several equivalent ways of expressing the model. Another form uses the cumulative distribution function or the mortality function,

$$F(t) = 1 - S(t).$$

Another useful formulation of these models is the hazard function, also known as the force of mortality or risk function. The hazard is the rate of decrease in the number of survivors relative to the number of survivors at a specific time. Mathematically, the hazard function is:

$$h(t) = -\frac{1}{S(t)}\frac{dS(t)}{dt} = -\frac{d\ln(S(t))}{dt}.$$

The probability density function commonly used in statistical texts can be expressed as follows:

$$f(t) = \frac{dF(t)}{dt} = h(t)S(t).$$

The area under the survival curve is the expected value for t. In some cases the area under the survival curve is restricted to an interval $0-t_1$ where t_1 might be one year, for example.

The specific time-to-event or survival model used in the present analysis is Bailey's modification of the Makeham model. The survival function for the Bailey-Makeham model is:

$$S(t) = \exp\left\{-\delta t - \left(\frac{\alpha}{\gamma}\right)\left(1 - \exp(-\gamma t)\right)\right\}$$

where

$$\alpha = \exp(\alpha_0+\alpha_1 x_1+\ldots+\alpha_i x_i+\ldots+\alpha_k x_k)$$
$$\gamma = \exp(\gamma_0+\gamma_1 g_1+\ldots+\gamma_i x_i+\ldots+\gamma_k x_k)$$
$$\delta = \exp(\delta_0+\delta_1 x_1+\ldots+\delta_i x_i+\ldots+\delta_k x_k)$$

are the expressions for each of the structural parameters α, γ, and δ in terms of the k concomitant variables x_i and their associated component parameters α_i, γ_i, and δ_i for i=1,2,..., k and three intercepts or component parameters α_0, γ_0, and δ_0. The structural parameter δ is the long-term risk which is approached as $t \rightarrow \infty$. The structural parameter is the initial excess risk which decays with rate constant γ.

For the survival function given above, the risk or hazard function has an especially tractable form of an exponential decay which approaches a long-term risk, δ. The hazard function corresponding to the survival function above is

$$h(t) = \alpha \exp(-\gamma t) + \delta \ .$$

The estimation of the component parameters was carried out in a series of steps in which those covariates which had estimable and statistically significant ($p<0.05$) influences of the probability of death were identified for inclusion in the model. As the model for each of the 17 risk categories was estimated separately, different lists of covariates were used for the final core models.

This first step was followed by the estimation of the additional contribution of specific principal diagnoses in each risk category. In these analyses, the effects of the patient characteristics included in the core models were corrected for. Only those principal diagnoses were retained which were estimable and had more than 1,000 cases or a statistically significant effect at the $p<0.01$ level when the number of cases was less than 1,000. Similarly, after adjustment for the effects of both the variables in the core model and the principal diagnoses, correction terms were calculated to estimate the additional information about the probability of death associated with the categorization of the patients into the clinical groups used for the presentation of the data in the mortality tables (see below). These correction terms were negligible for the medical categories but substantial for the surgical categories.

Once the component parameters or regression coefficients α_i, γ_i, and δ_i have been estimated, the predicted probability of patient death at any specified time after admission, 1-S(t), may be calculated for all individuals. To obtain the predicted mortality rate up to a given time for a hospital, it is then only necessary to average over the predicted probabilities of death of its patients to that time.

The analytic categories are useful for grouping the patients into relatively risk homogeneous strata for the regressions. However, to gain insights into patterns of practice at hospitals, the data are presented for patients grouped into clinically meaningful medical and surgical categories. The 17 clinical categories used in the mortality tables were identified by the Institute of Medicine as being of particular medical and epidemiologic interest.

Estimation of the Standard Deviation for Predicted Mortality

The standard deviation of the predicted mortality rate is used to assess how meaningfully different the observed mortality rate is from the rate predicted by the national experience with like patients. The standard deviation depends, in fact, on the variance of the residual or the difference between the observed, P, and predicted, $\hat{\Theta}$, mortality rates.

The residual has four components V_1, V_2, V_3, and V_4 where V_1 is the variance of the estimate of the predicted probability of death. This computationally intensive term was negligible for nearly all cases, compared to other components of variance. Consequently, this term was not included the present analysis.

V_2 is the binomial variance for n patients.

$$V_2 = \frac{\hat{\Theta}\left(1 - \hat{\Theta}\right)}{n}.$$

V_3 is the variation among hospitals not explained by the mortality regression models containing the patient characteristics described above.

$$V_3 = \widehat{\mathrm{Var}(\Theta)} = \left(1 - \frac{1}{n}\right) \widehat{M_2(\Theta)}$$

where

$$\widehat{M_2(\Theta)} = \left\{ \begin{pmatrix} \text{Predicted mortality} \\ \text{on basis of} \\ \text{patient characteristics and} \\ \text{adjustment for hospital effects} \end{pmatrix} - \begin{pmatrix} \text{Predicted mortality} \\ \text{on basis of} \\ \text{patient characteristics,} \\ \text{but omitting the hospital specific effects} \end{pmatrix} \right\}^2 \left(\frac{1}{z_p^2}\right)$$

The quantity z_p corresponds to the statistical significance (p-value) of the hospital specific effect.

V_4 is the variation not explained by the mortality regression models which each include, in addition, an indicator variable for the hospital:

$$V_4 = \left\{ \left(\text{Observed mortality}\right) - \left(\begin{array}{c} \text{Predicted mortality} \\ \text{on basis of} \\ \text{patient characteristics, and} \\ \text{adjustment for the hospital specific effects} \end{array} \right) \right\}^2 .$$

(The regression coefficients of the indicator variable for the hospital are a measure of the influence on the probability of patient death of factors not otherwise specified in the model. These factors include severity of illness not adequately reported on by the patient characteristics deduced from the claims data and the hospital's pattern of practice; i.e., performance.)

The standard deviation given in the mortality tables is just:

$$SD = \sqrt{V_2 + V_3 + V_4}.$$

Measures of Uncertainty

In principle, to use the standard normal approximations to determine prediction intervals, an adjustment must be applied for the skewness and kurtosis inherent in a mortality rate when the rate is considerably less than 50 percent and the number of cases is small. Table A-3 presents the multiplicative factors, based on the binomial distribution, for the standard deviation needed to construct prediction intervals for the mortality rates at confidence levels ranging from 75 percent to 99 percent. Because of the approximations involved in the estimation of the skewness and kurtosis corrections, their precision decreases as the number of cases and the mortality rate decrease; i.e., as the value of the correction increases. In addition, because of simplifications and approximations in the estimation of the standard deviation, the precision of the multiplicative factors given in Table A-3 exceeds the precision of the estimate of the standard deviation. Hence, the rule-of-thumb given at the front of this Appendix represents an adequate approximation to the factors in Table A-3 and an adequate guide to the meaningfulness of the difference between the observed and the predicted mortality rates.

To illustrate the use of Table A-3, consider a hospital with 75 cases and a predicted mortality of 13.0 percent with a standard deviation of 5.0 percent. Overall, for hospitals with patients with characteristics similar to those of this hospital, we would expect the actual or observed mortality rate to lie, 95 percent of the time, either between 13.0 percent and 22.9 percent, if the actual is larger than the predicted, or between 3.3 percent and 13.0 percent, if the actual is less than the predicted. That is because 22.9 percent = 13.0 percent + 1.98 x 5.0 percent, the factor 1.98 having been read from the section of Table A-3 with the heading "95% Prediction Interval" and "Factor for Upper Bound", the row "75" for the number of cases, and by interpolation between the "10%" and the "20%" predicted mortality rate columns. Similarly, 3.3 percent = 13.0 percent - 1.94 x 5.0 percent, the factor -1.94 having been read from the section of Table A-3 with the heading "95% Prediction Interval" and "Factor for Lower Bound" and the corresponding row and columns.

On the other hand, 75 percent of the time, the observed mortality rate will lie either between 13 percent and 18.8 percent (13.0 percent + 1.15 x 5.0 percent) if the observed rate is higher than the predicted, or between 7.3 percent (13.0 percent - 1.15 x 5.0 percent) and 13.0 percent if it is lower.

Therefore, in comparing the actual and predicted rates, more attention should be given to the hospital whose observed mortality rate lies beyond the bounds calculated for the 99 percent prediction interval than to the hospital whose observed mortality rate lies only beyond the bounds calculated for the 95 percent prediction interval. In turn, more attention should be given to that hospital than to the hospital whose observed mortality rate lies only beyond the bounds calculated for the 75 percent prediction interval.

Table A-1

ANALYTICAL DIAGNOSTIC CATEGORIES

CATEGORY	ICD-9-CM CODES
1. Low risk cardiopulmonary and circulatory disorders	390, 393, 401, 402.00, 402.10, 402.90, 405, 411 (except 411.0), 413-414, 417-420, 422, 425.1, 426.1-426.7, 426.81, 427.0, 427.2-427.3, 427.6, 427.8-427.9, 429.4, 433 (except 433.0), 435, 437.2, 442 (except 442.2), 447 (except 447.2), 448, 451, 453.1, 453.8-453.9, 454-455, 456.3-456.6, 457.0-457.1, 457.9, 458.0, 460-478, 487 (except 487.0), 490-491, 493-495, 511.0, 518.2, 519.0-519.1
2. Low risk injuries and poisonings	800.0, 800.5, 801.0, 801.5, 802, 805 (except 805.0), 806 (except 806.0), 807 (except 807.0 and 807.4), 807.00-807.06, 808-819, 822-838, 839 (except 839.0), 840-848, 850, 854.0 (except 854.05), 861.2, 862, 867 (except 867.0 and 867.2), 870-874, 875.0, 876-887, 890-897, 905-932, 933.0, 935-940, 942 (except 942.3), 943-945, 947, 949-957, 958 (except 958.4), 959-963, 965.1, 965.5-965.7, 965.9, 966, 969-971, 972 (except 972.1), 973, 974 (except 974.1), 975 (except 975.7), 977-981, 984-986, 988, 992-993, 994 (except 994.1 and 994.7), 995, 996.0 (except 996.02), 996.2, 996.4-996.5, 996.7-996.9, 997.9, 998 (except 998.2)
3. Low risk gastrointestinal and endocrine disorders	240-246, 250.0, 250.5-250.6, 250.8, 250.9, 252, 254, 255 (except 255.4), 256-258, 264-272, 274, 276.3, 276.8, 279 (except 279.1), 520-527, 528.2, 528.4, 528.6-528.9, 529, 530 (except 530.4 and 530.8), 531.3, 531.7-531.9, 532.3, 532.7-532.9, 533.3, 533.7-533.9, 534.3, 534.7-534.9, 535-536, 537.1-537.2, 537.5-537.6, 537.8-537.9 (except 537.89), 540-543, 550, 552-556, 558 (except 558.2), 562-566, 568, 569.0-569.2, 569.4-569.6, 569.9, 571.8-571.9, 574 (only when 5th digit = 0), 575 (except 575.4 and 575.8), 576.0, 576.9, 577.1, 577.9, 579

Table A-1: Analytic Diagnostic Categories

4. Low risk genitourinary and reproductive disorders	582-583, 588-589, 590.1, 590.8-590.9, 592, 594-595, 596 (except 596.1 and 596.6), 597-598, 599 (except 599.0 and 599.6), 600-606, 607 (except 607.2), 608 (except 608.4), 610-618, 619 (except 619.1), 620-629, 630-648, 650-676
5. Low risk neuropsychiatric, sensory and musculoskeletal disorders	290-292, 293 (except 293.0), 294-309, 311-319, 330, 331 (except 331.0), 332-334, 337, 340, 342-343, 344 (except 344.0 and 344.1), 345 (except 345.3), 346-347, 348.0, 350-358, 360-389, 680-686, 690-698, 700-706, 707 (except 707.0), 708-709, 710 (except 710.1), 711-713, 714 (except 714.81), 715-739
6. Other low risk disorders	E-CODE, M-CODE, V01-V09, V11-V65 (except V58.0 and V58.8), V67-V82, 001-005, 007-009, 014-017, 020-026, 027 (except 027.0), 030, 032-033, 035, 037, 039, 041.0-041.2, 045, 049.8-049.9, 050-053, 055-057, 071-088, 090-111, 120-135, 137-139, 140, 143, 173-175, 180.0-180.1, 182, 188 (except 188.8 and 188.9), 190, 192 (except 192.2), 210-211, 212 (except 212.7), 213-224, 226-230, 231 (except 231.2), 232-236, 239.4-239.5, 239.9, 280 (except 280.0), 282, 740-744, 746-759, 780 (except 780.0), 781, 782.0-782.2, 782.6, 782.8-782.9, 783.1, 783.5-783.9, 784 (except 784.3 and 784.5), 785 (except 785.4 and 785.5), 786.2, 786.4-786.5, 786.7-786.9, 787 (except 787.2), 788.0-788.1, 788.3-788.4, 788.6-788.7, 789 (except 789.5), 790 (except 790.6 and 790.7), 793-796
7. Average risk disorders	V10, V58.0, V58.8, 006, 010 -013, 031, 034, 041.3-041.9, 070.1, 070.3, 070.5, 070.9, 114-115, 136 (except 136.3), 142, 144-146, 152-154, 160-161, 162.0, 165, 170, 171.0, 171.2-171.4, 171.6-171.7, 172 (except 172.8), 180.8, 181, 184-187, 188.8-188.9, 189 (except 189.0), 193-194, 196.0, 196.3, 196.5-196.6, 196.9, 197.3, 198.2, 225,

Table A-1: Analytic Diagnostic Categories

7. Average risk disorders (continued)	238, 239.0-239.3, 239.7-239.8, 250.1, 250.4, 250.7, 251, 253, 255.4, 259, 275 (except 275.4), 276.1, 276.6-276.7, 276.9, 277 (except 277.3), 278, 280.0, 281, 283, 285, 286 (except 286.6), 287-289, 293.0, 310, 322-326, 331.0, 336, 344.0-344.1, 345.3, 349, 359, 391-392, 394-396, 398 (except 398.91), 402.01, 402.11, 402.91, 403-404, 410.7, 411.0, 412, 423.8-423.9, 424, 425.5, 425.7-425.9, 426.0, 426.9, 427.1, 429.0-429.3, 437 (except 437.2), 438, 440, 441.4, 441.9, 443, 444 (except 444.1), 446, 456.1, 456.21, 456.8, 457.2, 457.8, 459 (except 459.0 and 459.2), 480, 482.2, 483-484, 487.0, 492, 496, 506, 508 (except 508.0), 518.3, 518.8, 519.4, 519.8-519.9, 528.0-528.1, 528.3, 528.5, 531.0, 531.4, 532.0, 532.4, 533.0, 533.4, 534.0, 534.4, 537.0, 537.3-537.4, 537.89, 557 (except 557.0), 560.1, 560.3, 560.80-560.81, 560.9, 569.3, 569.8 (except 569.83), 571.0-571.1, 571.3-571.4, 572.0-572.1, 573, 574 (only when 5th digit = 1), 575.4, 575.8, 576.1-576.5, 577.0, 577.2, 577.8, 578 (except 578.0), 580-581, 587, 590.0, 590.2- 590.3, 591, 593, 596.1, 596.6, 599.0, 599.6, 607.2, 608.4, 619.1, 714.81, 745, 782.3, 783.0, 783.2, 784.3, 784.5, 786.0-786.1, 786.3, 786.6, 787.2, 788.2, 788.5, 788.8-788.9, 790.6-790.7, 791-792, 798, 799.8-799.9, 803.0, 803.5, 805.0, 807.07-807.09, 820-821, 839.0, 860, 863, 865-866, 867.0, 867.2, 900, 903-904, 934.0-934.1, 941, 942.3, 946.0-946.2, 948.0-948.3, 964, 965.0, 965.4, 965.8, 967-968, 972.1, 974.1, 975.7, 976, 982-983, 987, 989, 996.1, 996.3, 996.6, 997 (except 997.9), 998.2, 999
8. Moderately severe cardiopulmonary and circulatory disorders	398.91, 415-416, 425.0, 425.2-425.4, 426.89, 428, 429.5-429.9, 432.1, 434, 436, 441.2, 442.2, 452, 453.0, 453.2-453.3, 458 (except 458.0), 459.0, 459.2, 481, 482.3, 482.9, 485-486, 500-505, 510.9, 511 (except 511.0), 512.8, 513-515, 517, 518.0-518.1, 518.4, 519.2-519.3
9. Moderately severe gastrointestinal and endocrine disorders	273, 276.5, 277.3, 530.4, 530.8, 551, 558.2, 560.0, 560.2, 560.89, 567, 572.3, 578.0

Table A-1: Analytic Diagnostic Categories

10. Moderately severe neoplastic diseases	141, 147-149, 158, 162.3-162.5, 179, 180.9, 183, 189.0, 191, 192.2, 198.1, 198.6-198.7, 198.82, 200-202, 207 (except 207.0), 212.7, 237, 239.6
11. Other moderately severe disorders	V66, 038.42, 040, 047-048, 049.0-049.1, 054, 060-066, 284, 335, 341, 348.3-348.4, 348.8-348.9, 585, 707.0, 710.1, 782.4-782.5, 782.7, 783.4, 785.4, 789.5, 797, 799.0, 799.2-799.4, 804, 806.0, 807.4, 851.0, 851.2, 851.4, 851.6, 851.8, 852.0, (except 852.05), 852.1 (except 852.15), 852.2 (except 852.25), 852.4-852.5, 853.0 (except 853.05), 853.1 (except 853.15), 861 (except 861.2), 864.0 (except 864.04), 864.1 (except 864.14), 933.1, 990, 996.02
12. Very severe cardiopulmonary and circulatory disorders	397, 410 (except 410.7), 421, 423.0-423.2, 433.0, 447.2, 456.0, 456.20, 482.0-482.1, 482.4, 482.8, 507, 508.0, 510.0, 512.0, 516, 518.5
13. Very severe gastrointestinal and endocrine disorders	250.2-250.3, 260-263, 275.4, 276.0, 276.2, 276.4, 279.1, 531.1-531.2, 531.5-531.6, 532.1-532.2, 532.5-532.6, 533.1-533.2, 533.5-533.6, 534.1-534.2, 534.5-534.6, 569.83, 571.2, 571.5-571.6, 572.2, 576.8
14. Very severe infectious disorders	018, 027.0, 036, 038 (except 038.42), 042-044, 046, 112, 116-118, 136.3
15. Very severe neoplastic diseases	150-151, 156-157, 159, 162.2, 162.8-162.9, 163-164, 171.5, 171.8-171.9, 195, 196.1-196.2, 196.8, 197.0-197.2, 197.4-197.6, 197.8, 198.0, 198.3-198.5, 198.81, 198.89, 203, 204 (except 204.0), 205 (except 205.0), 207.0, 208 (except 208.0), 231.2
16. Other very severe disorders	320-321, 348.2, 348.5, 584, 586, 760-779, 780.0, 783.3, 799.1, 800 (except 800.0 and 800.5), 801 (except 801.0 and 801.5), 854.05, 854.1, 868-869, 875.1, 934.8-934.9, 946.3-946.5, 958.4, 991, 994.1, 994.7

Table A-1: Analytic Diagnostic Categories

17. Catastrophic disorders	070.0, 070.2, 070.4, 070.6, 155, 172.8, 197.7, 199, 204.0, 205.0, 206, 208.0, 286.6, 348.1, 427.4-427.5, 430-431, 432 (except viral 432.1), 441.0-441.1, 441.3, 441.5, 444.1, 557.0, 570, 572.4, 572.8, 785.5, 803 (except 803.0 and 803.5), 851.1, 851.3, 851.5, 851.7, 851.9, 852.05, 852.15, 852.25, 852.3, 853.05, 853.15, 864.04, 864.14, 901-902, 948.4-948.9

Table A-2

EXPLANATORY VARIABLES FOR THE MORTALITY MODEL

Generally the same variables are used for all diagnostic categories.

DEMOGRAPHICS

$$\text{AGESP} = \text{sign}\,(\text{W-65})\left(\left|\frac{\text{W-65}}{65}\right|\right)^{1.72}$$

where

$$\text{W} = \left\{\begin{array}{c} 23 \text{ if AGE} \leq 23 \\ \text{AGE if } 23 < \text{AGE} < 100 \\ 100 \text{ if } 100 \leq \text{AGE} \end{array}\right\}$$

SX An indicator variable: = 1 if Female and 0 otherwise.

COMORBIDITIES (Indicator variables = 1 if comorbidity present and 0 otherwise)

		ICD-9-CM Codes
CCA	Cancer	141-160.9, 162-172.9, 174-208.9)
CCV	Chronic cardiovascular disease	412-414.9, 426-429.1)
CLV	Chronic liver disease	571-572.8)
CRN	Chronic renal disease	582-583.9, 585-587)

ADMISSION SOURCES AND TYPES (Indicator variables = 1 if source or type present and 0 otherwise)

PHRF	Patient referred by personal or HMO physician.
TRSNF	Patient transferred from skilled nursing facility.
ELCT	Patient admitted for elective procedure.
EMRG	Patient admitted for emergency.

PREVIOUS HOSPITALIZATIONS

PALR	Number at low risk, with 5 or more set to 5.
PAAR	Number at average risk, with 3 or more set to 3.
PAMSR	Number at moderately severe risk, with 3 or more set to 3.
PAVSR	Number at very severe risk, with 2 or more set to 2.
PACR	Number at catastrophic risk, with 1or more set to 1.

TABLE A-3: MULTIPLICATIVE FACTORS FOR THE CALCULATION OF THE BOUNDS FOR PREDICTION INTERVALS

(n is the number of cases at your hospital and p is the predicted mortality rate.)

	99% Prediction Interval					95% Prediction Interval					75% Prediction Interval				
	Factor for Upper Bound					Factor for Upper Bound					Factor for Upper Bound				
p	1%	5%	10%	20%	40%	1%	5%	10%	20%	40%	1%	5%	10%	20%	40%
n															
25	2.95	2.73	2.68	2.63	2.59	2.15	2.04	2.01	1.99	1.97	1.17	1.16	1.16	1.15	1.15
50	2.76	2.65	2.63	2.60	2.58	2.05	2.00	1.99	1.97	1.96	1.16	1.15	1.15	1.15	1.15
75	2.70	2.63	2.61	2.59	2.58	2.02	1.99	1.98	1.97	1.96	1.16	1.15	1.15	1.15	1.15
100	2.67	2.61	2.60	2.59	2.58	2.01	1.98	1.97	1.97	1.96	1.16	1.15	1.15	1.15	1.15
150	2.64	2.60	2.59	2.59	2.58	1.99	1.97	1.97	1.96	1.96	1.15	1.15	1.15	1.15	1.15
200	2.62	2.60	2.59	2.58	2.58	1.98	1.97	1.97	1.96	1.96	1.15	1.15	1.15	1.15	1.15
300	2.61	2.59	2.58	2.58	2.58	1.98	1.97	1.96	1.96	1.96	1.15	1.15	1.15	1.15	1.15
400	2.60	2.59	2.58	2.58	2.58	1.97	1.96	1.96	1.96	1.96	1.15	1.15	1.15	1.15	1.15
500	2.59	2.58	2.58	2.58	2.58	1.97	1.96	1.96	1.96	1.96	1.15	1.15	1.15	1.15	1.15
750	2.59	2.58	2.58	2.58	2.58	1.97	1.96	1.96	1.96	1.96	1.15	1.15	1.15	1.15	1.15
1000	2.59	2.58	2.58	2.58	2.58	1.96	1.96	1.96	1.96	1.96	1.15	1.15	1.15	1.15	1.15
2000	2.58	2.58	2.58	2.58	2.58	1.96	1.96	1.96	1.96	1.96	1.15	1.15	1.15	1.15	1.15
5000	2.58	2.58	2.58	2.58	2.58	1.96	1.96	1.96	1.96	1.96	1.15	1.15	1.15	1.15	1.15
	Factor for Lower Bound					Factor for Lower Bound					Factor for Lower Bound				
p	1%	5%	10%	20%	40%	1%	5%	10%	20%	40%	1%	5%	10%	20%	40%
n															
25	-2.21	-2.42	-2.48	-2.52	-2.56	-1.77	-1.88	-1.91	-1.93	-1.95	-1.13	-1.14	-1.14	-1.15	-1.15
50	-2.39	-2.50	-2.53	-2.55	-2.57	-1.87	-1.92	-1.93	-1.95	-1.96	-1.14	-1.15	-1.15	-1.15	-1.15
75	-2.45	-2.52	-2.54	-2.56	-2.57	-1.90	-1.93	-1.94	-1.95	-1.96	-1.14	-1.15	-1.15	-1.15	-1.15
100	-2.48	-2.54	-2.55	-2.56	-2.57	-1.91	-1.94	-1.95	-1.95	-1.96	-1.15	-1.15	-1.15	-1.15	-1.15
150	-2.51	-2.55	-2.56	-2.57	-2.57	-1.93	-1.95	-1.95	-1.96	-1.96	-1.15	-1.15	-1.15	-1.15	-1.15
200	-2.53	-2.56	-2.56	-2.57	-2.57	-1.94	-1.95	-1.95	-1.96	-1.96	-1.15	-1.15	-1.15	-1.15	-1.15
300	-2.54	-2.56	-2.57	-2.57	-2.57	-1.94	-1.95	-1.96	-1.96	-1.96	-1.15	-1.15	-1.15	-1.15	-1.15
400	-2.55	-2.57	-2.57	-2.57	-2.57	-1.95	-1.96	-1.96	-1.96	-1.96	-1.15	-1.15	-1.15	-1.15	-1.15
500	-2.56	-2.57	-2.57	-2.57	-2.58	-1.95	-1.96	-1.96	-1.96	-1.96	-1.15	-1.15	-1.15	-1.15	-1.15
750	-2.56	-2.57	-2.57	-2.57	-2.58	-1.95	-1.96	-1.96	-1.96	-1.96	-1.15	-1.15	-1.15	-1.15	-1.15
1000	-2.57	-2.57	-2.57	-2.57	-2.58	-1.96	-1.96	-1.96	-1.96	-1.96	-1.15	-1.15	-1.15	-1.15	-1.15
2000	-2.57	-2.57	-2.57	-2.58	-2.58	-1.96	-1.96	-1.96	-1.96	-1.96	-1.15	-1.15	-1.15	-1.15	-1.15
5000	-2.57	-2.58	-2.58	-2.58	-2.58	-1.96	-1.96	-1.96	-1.96	-1.96	-1.15	-1.15	-1.15	-1.15	-1.15

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